



## wwPDB EM Validation Summary Report ⓘ

Aug 14, 2023 – 08:14 pm BST

PDB ID : 8ARI  
EMDB ID : EMD-15603  
Title : Cryo-EM structure of human CtBP1/RAI2(303-362) delta(331-341) filament  
Authors : Mullapudi, E.; Goradia, N.; Wilmanns, M.  
Deposited on : 2022-08-16  
Resolution : 3.00 Å (reported)  
Based on initial model : 6CDF

This is a wwPDB EM Validation Summary Report for a publicly released PDB entry.

We welcome your comments at [validation@mail.wwpdb.org](mailto:validation@mail.wwpdb.org)

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

EMDB validation analysis : 0.0.1.dev50  
Mogul : 1.8.4, CSD as541be (2020)  
MolProbity : 4.02b-467  
buster-report : 1.1.7 (2018)  
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)  
MapQ : 1.9.9  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.35

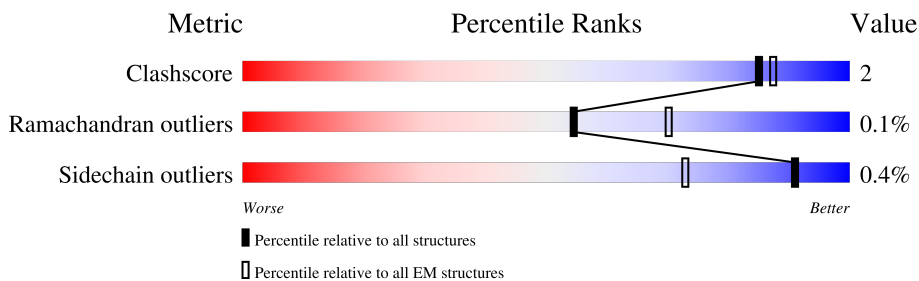
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*ELECTRON MICROSCOPY*

The reported resolution of this entry is 3.00 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



























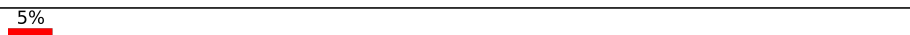
Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	158937	4297
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for  $\geq 3$ , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions  $\leq 5\%$ . The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion  $< 40\%$ ). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	457	
1	B	457	
1	C	457	
1	D	457	
1	E	457	
1	F	457	
1	G	457	
1	H	457	

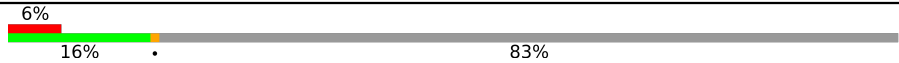
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Mol	Chain	Length	Quality of chain
1	I	457	 68% 5% 28%
1	J	457	 68% 5% 28%
1	K	457	 68% 5% 28%
1	L	457	 67% 5% 28%
1	M	457	 68% 5% 28%
1	N	457	 68% . 28%
1	O	457	 68% . 28%
1	P	457	 67% 5% 28%
1	Q	457	 68% . 28%
1	R	457	 68% 5% 28%
1	S	457	 68% 5% 28%
1	T	457	 68% 5% 28%
1	U	457	 67% 5% 28%
1	V	457	 67% 5% 28%
1	W	457	 68% 5% 28%
1	X	457	 67% 5% 28%
2	a	129	 6% 16% . 83%
2	b	129	 6% 16% . 83%
2	c	129	 . 16% . 83%
2	d	129	 . 16% . 83%
2	e	129	 16% . 83%
2	f	129	 16% . 83%
2	g	129	 . 16% . 83%
2	h	129	 . 16% . 83%
2	i	129	 5% 16% . 83%

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Mol	Chain	Length	Quality of chain
2	j	129	 <p>6% 16% 83%</p>

## 2 Entry composition [i](#)

There are 3 unique types of molecules in this entry. The entry contains 63756 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called C-terminal-binding protein 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	A	331	2557	1597	469	479	12	0	0
1	B	330	2542	1588	465	478	11	0	0
1	C	330	2546	1591	465	478	12	0	0
1	D	331	2557	1597	469	479	12	0	0
1	E	331	2557	1597	469	479	12	0	0
1	F	331	2557	1597	469	479	12	0	0
1	G	331	2557	1597	469	479	12	0	0
1	H	331	2557	1597	469	479	12	0	0
1	I	331	2557	1597	469	479	12	0	0
1	J	331	2557	1597	469	479	12	0	0
1	K	331	2557	1597	469	479	12	0	0
1	L	331	2557	1597	469	479	12	0	0
1	M	331	2557	1597	469	479	12	0	0
1	N	331	2557	1597	469	479	12	0	0
1	O	331	2557	1597	469	479	12	0	0
1	P	331	2557	1597	469	479	12	0	0
1	Q	331	2557	1597	469	479	12	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	331	Total	C	N	O	S	0	0
			2557	1597	469	479	12		
1	S	331	Total	C	N	O	S	0	0
			2557	1597	469	479	12		
1	T	331	Total	C	N	O	S	0	0
			2557	1597	469	479	12		
1	U	331	Total	C	N	O	S	0	0
			2557	1597	469	479	12		
1	V	330	Total	C	N	O	S	0	0
			2546	1591	465	478	12		
1	W	330	Total	C	N	O	S	0	0
			2546	1591	465	478	12		
1	X	331	Total	C	N	O	S	0	0
			2557	1597	469	479	12		

There are 408 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-16	HIS	-	expression tag	UNP Q13363
A	-15	HIS	-	expression tag	UNP Q13363
A	-14	HIS	-	expression tag	UNP Q13363
A	-13	HIS	-	expression tag	UNP Q13363
A	-12	HIS	-	expression tag	UNP Q13363
A	-11	HIS	-	expression tag	UNP Q13363
A	-10	SER	-	expression tag	UNP Q13363
A	-9	ALA	-	expression tag	UNP Q13363
A	-8	GLY	-	expression tag	UNP Q13363
A	-7	LEU	-	expression tag	UNP Q13363
A	-6	GLU	-	expression tag	UNP Q13363
A	-5	VAL	-	expression tag	UNP Q13363
A	-4	LEU	-	expression tag	UNP Q13363
A	-3	PHE	-	expression tag	UNP Q13363
A	-2	GLN	-	expression tag	UNP Q13363
A	-1	GLY	-	expression tag	UNP Q13363
A	0	PRO	-	expression tag	UNP Q13363
B	-16	HIS	-	expression tag	UNP Q13363
B	-15	HIS	-	expression tag	UNP Q13363
B	-14	HIS	-	expression tag	UNP Q13363
B	-13	HIS	-	expression tag	UNP Q13363
B	-12	HIS	-	expression tag	UNP Q13363
B	-11	HIS	-	expression tag	UNP Q13363
B	-10	SER	-	expression tag	UNP Q13363
B	-9	ALA	-	expression tag	UNP Q13363

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Chain	Residue	Modelled	Actual	Comment	Reference
B	-8	GLY	-	expression tag	UNP Q13363
B	-7	LEU	-	expression tag	UNP Q13363
B	-6	GLU	-	expression tag	UNP Q13363
B	-5	VAL	-	expression tag	UNP Q13363
B	-4	LEU	-	expression tag	UNP Q13363
B	-3	PHE	-	expression tag	UNP Q13363
B	-2	GLN	-	expression tag	UNP Q13363
B	-1	GLY	-	expression tag	UNP Q13363
B	0	PRO	-	expression tag	UNP Q13363
C	-16	HIS	-	expression tag	UNP Q13363
C	-15	HIS	-	expression tag	UNP Q13363
C	-14	HIS	-	expression tag	UNP Q13363
C	-13	HIS	-	expression tag	UNP Q13363
C	-12	HIS	-	expression tag	UNP Q13363
C	-11	HIS	-	expression tag	UNP Q13363
C	-10	SER	-	expression tag	UNP Q13363
C	-9	ALA	-	expression tag	UNP Q13363
C	-8	GLY	-	expression tag	UNP Q13363
C	-7	LEU	-	expression tag	UNP Q13363
C	-6	GLU	-	expression tag	UNP Q13363
C	-5	VAL	-	expression tag	UNP Q13363
C	-4	LEU	-	expression tag	UNP Q13363
C	-3	PHE	-	expression tag	UNP Q13363
C	-2	GLN	-	expression tag	UNP Q13363
C	-1	GLY	-	expression tag	UNP Q13363
C	0	PRO	-	expression tag	UNP Q13363
D	-16	HIS	-	expression tag	UNP Q13363
D	-15	HIS	-	expression tag	UNP Q13363
D	-14	HIS	-	expression tag	UNP Q13363
D	-13	HIS	-	expression tag	UNP Q13363
D	-12	HIS	-	expression tag	UNP Q13363
D	-11	HIS	-	expression tag	UNP Q13363
D	-10	SER	-	expression tag	UNP Q13363
D	-9	ALA	-	expression tag	UNP Q13363
D	-8	GLY	-	expression tag	UNP Q13363
D	-7	LEU	-	expression tag	UNP Q13363
D	-6	GLU	-	expression tag	UNP Q13363
D	-5	VAL	-	expression tag	UNP Q13363
D	-4	LEU	-	expression tag	UNP Q13363
D	-3	PHE	-	expression tag	UNP Q13363
D	-2	GLN	-	expression tag	UNP Q13363
D	-1	GLY	-	expression tag	UNP Q13363

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Chain	Residue	Modelled	Actual	Comment	Reference
D	0	PRO	-	expression tag	UNP Q13363
E	-16	HIS	-	expression tag	UNP Q13363
E	-15	HIS	-	expression tag	UNP Q13363
E	-14	HIS	-	expression tag	UNP Q13363
E	-13	HIS	-	expression tag	UNP Q13363
E	-12	HIS	-	expression tag	UNP Q13363
E	-11	HIS	-	expression tag	UNP Q13363
E	-10	SER	-	expression tag	UNP Q13363
E	-9	ALA	-	expression tag	UNP Q13363
E	-8	GLY	-	expression tag	UNP Q13363
E	-7	LEU	-	expression tag	UNP Q13363
E	-6	GLU	-	expression tag	UNP Q13363
E	-5	VAL	-	expression tag	UNP Q13363
E	-4	LEU	-	expression tag	UNP Q13363
E	-3	PHE	-	expression tag	UNP Q13363
E	-2	GLN	-	expression tag	UNP Q13363
E	-1	GLY	-	expression tag	UNP Q13363
E	0	PRO	-	expression tag	UNP Q13363
F	-16	HIS	-	expression tag	UNP Q13363
F	-15	HIS	-	expression tag	UNP Q13363
F	-14	HIS	-	expression tag	UNP Q13363
F	-13	HIS	-	expression tag	UNP Q13363
F	-12	HIS	-	expression tag	UNP Q13363
F	-11	HIS	-	expression tag	UNP Q13363
F	-10	SER	-	expression tag	UNP Q13363
F	-9	ALA	-	expression tag	UNP Q13363
F	-8	GLY	-	expression tag	UNP Q13363
F	-7	LEU	-	expression tag	UNP Q13363
F	-6	GLU	-	expression tag	UNP Q13363
F	-5	VAL	-	expression tag	UNP Q13363
F	-4	LEU	-	expression tag	UNP Q13363
F	-3	PHE	-	expression tag	UNP Q13363
F	-2	GLN	-	expression tag	UNP Q13363
F	-1	GLY	-	expression tag	UNP Q13363
F	0	PRO	-	expression tag	UNP Q13363
G	-16	HIS	-	expression tag	UNP Q13363
G	-15	HIS	-	expression tag	UNP Q13363
G	-14	HIS	-	expression tag	UNP Q13363
G	-13	HIS	-	expression tag	UNP Q13363
G	-12	HIS	-	expression tag	UNP Q13363
G	-11	HIS	-	expression tag	UNP Q13363
G	-10	SER	-	expression tag	UNP Q13363

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Chain	Residue	Modelled	Actual	Comment	Reference
G	-9	ALA	-	expression tag	UNP Q13363
G	-8	GLY	-	expression tag	UNP Q13363
G	-7	LEU	-	expression tag	UNP Q13363
G	-6	GLU	-	expression tag	UNP Q13363
G	-5	VAL	-	expression tag	UNP Q13363
G	-4	LEU	-	expression tag	UNP Q13363
G	-3	PHE	-	expression tag	UNP Q13363
G	-2	GLN	-	expression tag	UNP Q13363
G	-1	GLY	-	expression tag	UNP Q13363
G	0	PRO	-	expression tag	UNP Q13363
H	-16	HIS	-	expression tag	UNP Q13363
H	-15	HIS	-	expression tag	UNP Q13363
H	-14	HIS	-	expression tag	UNP Q13363
H	-13	HIS	-	expression tag	UNP Q13363
H	-12	HIS	-	expression tag	UNP Q13363
H	-11	HIS	-	expression tag	UNP Q13363
H	-10	SER	-	expression tag	UNP Q13363
H	-9	ALA	-	expression tag	UNP Q13363
H	-8	GLY	-	expression tag	UNP Q13363
H	-7	LEU	-	expression tag	UNP Q13363
H	-6	GLU	-	expression tag	UNP Q13363
H	-5	VAL	-	expression tag	UNP Q13363
H	-4	LEU	-	expression tag	UNP Q13363
H	-3	PHE	-	expression tag	UNP Q13363
H	-2	GLN	-	expression tag	UNP Q13363
H	-1	GLY	-	expression tag	UNP Q13363
H	0	PRO	-	expression tag	UNP Q13363
I	-16	HIS	-	expression tag	UNP Q13363
I	-15	HIS	-	expression tag	UNP Q13363
I	-14	HIS	-	expression tag	UNP Q13363
I	-13	HIS	-	expression tag	UNP Q13363
I	-12	HIS	-	expression tag	UNP Q13363
I	-11	HIS	-	expression tag	UNP Q13363
I	-10	SER	-	expression tag	UNP Q13363
I	-9	ALA	-	expression tag	UNP Q13363
I	-8	GLY	-	expression tag	UNP Q13363
I	-7	LEU	-	expression tag	UNP Q13363
I	-6	GLU	-	expression tag	UNP Q13363
I	-5	VAL	-	expression tag	UNP Q13363
I	-4	LEU	-	expression tag	UNP Q13363
I	-3	PHE	-	expression tag	UNP Q13363
I	-2	GLN	-	expression tag	UNP Q13363

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Chain	Residue	Modelled	Actual	Comment	Reference
I	-1	GLY	-	expression tag	UNP Q13363
I	0	PRO	-	expression tag	UNP Q13363
J	-16	HIS	-	expression tag	UNP Q13363
J	-15	HIS	-	expression tag	UNP Q13363
J	-14	HIS	-	expression tag	UNP Q13363
J	-13	HIS	-	expression tag	UNP Q13363
J	-12	HIS	-	expression tag	UNP Q13363
J	-11	HIS	-	expression tag	UNP Q13363
J	-10	SER	-	expression tag	UNP Q13363
J	-9	ALA	-	expression tag	UNP Q13363
J	-8	GLY	-	expression tag	UNP Q13363
J	-7	LEU	-	expression tag	UNP Q13363
J	-6	GLU	-	expression tag	UNP Q13363
J	-5	VAL	-	expression tag	UNP Q13363
J	-4	LEU	-	expression tag	UNP Q13363
J	-3	PHE	-	expression tag	UNP Q13363
J	-2	GLN	-	expression tag	UNP Q13363
J	-1	GLY	-	expression tag	UNP Q13363
J	0	PRO	-	expression tag	UNP Q13363
K	-16	HIS	-	expression tag	UNP Q13363
K	-15	HIS	-	expression tag	UNP Q13363
K	-14	HIS	-	expression tag	UNP Q13363
K	-13	HIS	-	expression tag	UNP Q13363
K	-12	HIS	-	expression tag	UNP Q13363
K	-11	HIS	-	expression tag	UNP Q13363
K	-10	SER	-	expression tag	UNP Q13363
K	-9	ALA	-	expression tag	UNP Q13363
K	-8	GLY	-	expression tag	UNP Q13363
K	-7	LEU	-	expression tag	UNP Q13363
K	-6	GLU	-	expression tag	UNP Q13363
K	-5	VAL	-	expression tag	UNP Q13363
K	-4	LEU	-	expression tag	UNP Q13363
K	-3	PHE	-	expression tag	UNP Q13363
K	-2	GLN	-	expression tag	UNP Q13363
K	-1	GLY	-	expression tag	UNP Q13363
K	0	PRO	-	expression tag	UNP Q13363
L	-16	HIS	-	expression tag	UNP Q13363
L	-15	HIS	-	expression tag	UNP Q13363
L	-14	HIS	-	expression tag	UNP Q13363
L	-13	HIS	-	expression tag	UNP Q13363
L	-12	HIS	-	expression tag	UNP Q13363
L	-11	HIS	-	expression tag	UNP Q13363

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Chain	Residue	Modelled	Actual	Comment	Reference
L	-10	SER	-	expression tag	UNP Q13363
L	-9	ALA	-	expression tag	UNP Q13363
L	-8	GLY	-	expression tag	UNP Q13363
L	-7	LEU	-	expression tag	UNP Q13363
L	-6	GLU	-	expression tag	UNP Q13363
L	-5	VAL	-	expression tag	UNP Q13363
L	-4	LEU	-	expression tag	UNP Q13363
L	-3	PHE	-	expression tag	UNP Q13363
L	-2	GLN	-	expression tag	UNP Q13363
L	-1	GLY	-	expression tag	UNP Q13363
L	0	PRO	-	expression tag	UNP Q13363
M	-16	HIS	-	expression tag	UNP Q13363
M	-15	HIS	-	expression tag	UNP Q13363
M	-14	HIS	-	expression tag	UNP Q13363
M	-13	HIS	-	expression tag	UNP Q13363
M	-12	HIS	-	expression tag	UNP Q13363
M	-11	HIS	-	expression tag	UNP Q13363
M	-10	SER	-	expression tag	UNP Q13363
M	-9	ALA	-	expression tag	UNP Q13363
M	-8	GLY	-	expression tag	UNP Q13363
M	-7	LEU	-	expression tag	UNP Q13363
M	-6	GLU	-	expression tag	UNP Q13363
M	-5	VAL	-	expression tag	UNP Q13363
M	-4	LEU	-	expression tag	UNP Q13363
M	-3	PHE	-	expression tag	UNP Q13363
M	-2	GLN	-	expression tag	UNP Q13363
M	-1	GLY	-	expression tag	UNP Q13363
M	0	PRO	-	expression tag	UNP Q13363
N	-16	HIS	-	expression tag	UNP Q13363
N	-15	HIS	-	expression tag	UNP Q13363
N	-14	HIS	-	expression tag	UNP Q13363
N	-13	HIS	-	expression tag	UNP Q13363
N	-12	HIS	-	expression tag	UNP Q13363
N	-11	HIS	-	expression tag	UNP Q13363
N	-10	SER	-	expression tag	UNP Q13363
N	-9	ALA	-	expression tag	UNP Q13363
N	-8	GLY	-	expression tag	UNP Q13363
N	-7	LEU	-	expression tag	UNP Q13363
N	-6	GLU	-	expression tag	UNP Q13363
N	-5	VAL	-	expression tag	UNP Q13363
N	-4	LEU	-	expression tag	UNP Q13363
N	-3	PHE	-	expression tag	UNP Q13363

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Chain	Residue	Modelled	Actual	Comment	Reference
N	-2	GLN	-	expression tag	UNP Q13363
N	-1	GLY	-	expression tag	UNP Q13363
N	0	PRO	-	expression tag	UNP Q13363
O	-16	HIS	-	expression tag	UNP Q13363
O	-15	HIS	-	expression tag	UNP Q13363
O	-14	HIS	-	expression tag	UNP Q13363
O	-13	HIS	-	expression tag	UNP Q13363
O	-12	HIS	-	expression tag	UNP Q13363
O	-11	HIS	-	expression tag	UNP Q13363
O	-10	SER	-	expression tag	UNP Q13363
O	-9	ALA	-	expression tag	UNP Q13363
O	-8	GLY	-	expression tag	UNP Q13363
O	-7	LEU	-	expression tag	UNP Q13363
O	-6	GLU	-	expression tag	UNP Q13363
O	-5	VAL	-	expression tag	UNP Q13363
O	-4	LEU	-	expression tag	UNP Q13363
O	-3	PHE	-	expression tag	UNP Q13363
O	-2	GLN	-	expression tag	UNP Q13363
O	-1	GLY	-	expression tag	UNP Q13363
O	0	PRO	-	expression tag	UNP Q13363
P	-16	HIS	-	expression tag	UNP Q13363
P	-15	HIS	-	expression tag	UNP Q13363
P	-14	HIS	-	expression tag	UNP Q13363
P	-13	HIS	-	expression tag	UNP Q13363
P	-12	HIS	-	expression tag	UNP Q13363
P	-11	HIS	-	expression tag	UNP Q13363
P	-10	SER	-	expression tag	UNP Q13363
P	-9	ALA	-	expression tag	UNP Q13363
P	-8	GLY	-	expression tag	UNP Q13363
P	-7	LEU	-	expression tag	UNP Q13363
P	-6	GLU	-	expression tag	UNP Q13363
P	-5	VAL	-	expression tag	UNP Q13363
P	-4	LEU	-	expression tag	UNP Q13363
P	-3	PHE	-	expression tag	UNP Q13363
P	-2	GLN	-	expression tag	UNP Q13363
P	-1	GLY	-	expression tag	UNP Q13363
P	0	PRO	-	expression tag	UNP Q13363
Q	-16	HIS	-	expression tag	UNP Q13363
Q	-15	HIS	-	expression tag	UNP Q13363
Q	-14	HIS	-	expression tag	UNP Q13363
Q	-13	HIS	-	expression tag	UNP Q13363
Q	-12	HIS	-	expression tag	UNP Q13363

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Chain	Residue	Modelled	Actual	Comment	Reference
Q	-11	HIS	-	expression tag	UNP Q13363
Q	-10	SER	-	expression tag	UNP Q13363
Q	-9	ALA	-	expression tag	UNP Q13363
Q	-8	GLY	-	expression tag	UNP Q13363
Q	-7	LEU	-	expression tag	UNP Q13363
Q	-6	GLU	-	expression tag	UNP Q13363
Q	-5	VAL	-	expression tag	UNP Q13363
Q	-4	LEU	-	expression tag	UNP Q13363
Q	-3	PHE	-	expression tag	UNP Q13363
Q	-2	GLN	-	expression tag	UNP Q13363
Q	-1	GLY	-	expression tag	UNP Q13363
Q	0	PRO	-	expression tag	UNP Q13363
R	-16	HIS	-	expression tag	UNP Q13363
R	-15	HIS	-	expression tag	UNP Q13363
R	-14	HIS	-	expression tag	UNP Q13363
R	-13	HIS	-	expression tag	UNP Q13363
R	-12	HIS	-	expression tag	UNP Q13363
R	-11	HIS	-	expression tag	UNP Q13363
R	-10	SER	-	expression tag	UNP Q13363
R	-9	ALA	-	expression tag	UNP Q13363
R	-8	GLY	-	expression tag	UNP Q13363
R	-7	LEU	-	expression tag	UNP Q13363
R	-6	GLU	-	expression tag	UNP Q13363
R	-5	VAL	-	expression tag	UNP Q13363
R	-4	LEU	-	expression tag	UNP Q13363
R	-3	PHE	-	expression tag	UNP Q13363
R	-2	GLN	-	expression tag	UNP Q13363
R	-1	GLY	-	expression tag	UNP Q13363
R	0	PRO	-	expression tag	UNP Q13363
S	-16	HIS	-	expression tag	UNP Q13363
S	-15	HIS	-	expression tag	UNP Q13363
S	-14	HIS	-	expression tag	UNP Q13363
S	-13	HIS	-	expression tag	UNP Q13363
S	-12	HIS	-	expression tag	UNP Q13363
S	-11	HIS	-	expression tag	UNP Q13363
S	-10	SER	-	expression tag	UNP Q13363
S	-9	ALA	-	expression tag	UNP Q13363
S	-8	GLY	-	expression tag	UNP Q13363
S	-7	LEU	-	expression tag	UNP Q13363
S	-6	GLU	-	expression tag	UNP Q13363
S	-5	VAL	-	expression tag	UNP Q13363
S	-4	LEU	-	expression tag	UNP Q13363

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Chain	Residue	Modelled	Actual	Comment	Reference
S	-3	PHE	-	expression tag	UNP Q13363
S	-2	GLN	-	expression tag	UNP Q13363
S	-1	GLY	-	expression tag	UNP Q13363
S	0	PRO	-	expression tag	UNP Q13363
T	-16	HIS	-	expression tag	UNP Q13363
T	-15	HIS	-	expression tag	UNP Q13363
T	-14	HIS	-	expression tag	UNP Q13363
T	-13	HIS	-	expression tag	UNP Q13363
T	-12	HIS	-	expression tag	UNP Q13363
T	-11	HIS	-	expression tag	UNP Q13363
T	-10	SER	-	expression tag	UNP Q13363
T	-9	ALA	-	expression tag	UNP Q13363
T	-8	GLY	-	expression tag	UNP Q13363
T	-7	LEU	-	expression tag	UNP Q13363
T	-6	GLU	-	expression tag	UNP Q13363
T	-5	VAL	-	expression tag	UNP Q13363
T	-4	LEU	-	expression tag	UNP Q13363
T	-3	PHE	-	expression tag	UNP Q13363
T	-2	GLN	-	expression tag	UNP Q13363
T	-1	GLY	-	expression tag	UNP Q13363
T	0	PRO	-	expression tag	UNP Q13363
U	-16	HIS	-	expression tag	UNP Q13363
U	-15	HIS	-	expression tag	UNP Q13363
U	-14	HIS	-	expression tag	UNP Q13363
U	-13	HIS	-	expression tag	UNP Q13363
U	-12	HIS	-	expression tag	UNP Q13363
U	-11	HIS	-	expression tag	UNP Q13363
U	-10	SER	-	expression tag	UNP Q13363
U	-9	ALA	-	expression tag	UNP Q13363
U	-8	GLY	-	expression tag	UNP Q13363
U	-7	LEU	-	expression tag	UNP Q13363
U	-6	GLU	-	expression tag	UNP Q13363
U	-5	VAL	-	expression tag	UNP Q13363
U	-4	LEU	-	expression tag	UNP Q13363
U	-3	PHE	-	expression tag	UNP Q13363
U	-2	GLN	-	expression tag	UNP Q13363
U	-1	GLY	-	expression tag	UNP Q13363
U	0	PRO	-	expression tag	UNP Q13363
V	-16	HIS	-	expression tag	UNP Q13363
V	-15	HIS	-	expression tag	UNP Q13363
V	-14	HIS	-	expression tag	UNP Q13363
V	-13	HIS	-	expression tag	UNP Q13363

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Chain	Residue	Modelled	Actual	Comment	Reference
V	-12	HIS	-	expression tag	UNP Q13363
V	-11	HIS	-	expression tag	UNP Q13363
V	-10	SER	-	expression tag	UNP Q13363
V	-9	ALA	-	expression tag	UNP Q13363
V	-8	GLY	-	expression tag	UNP Q13363
V	-7	LEU	-	expression tag	UNP Q13363
V	-6	GLU	-	expression tag	UNP Q13363
V	-5	VAL	-	expression tag	UNP Q13363
V	-4	LEU	-	expression tag	UNP Q13363
V	-3	PHE	-	expression tag	UNP Q13363
V	-2	GLN	-	expression tag	UNP Q13363
V	-1	GLY	-	expression tag	UNP Q13363
V	0	PRO	-	expression tag	UNP Q13363
W	-16	HIS	-	expression tag	UNP Q13363
W	-15	HIS	-	expression tag	UNP Q13363
W	-14	HIS	-	expression tag	UNP Q13363
W	-13	HIS	-	expression tag	UNP Q13363
W	-12	HIS	-	expression tag	UNP Q13363
W	-11	HIS	-	expression tag	UNP Q13363
W	-10	SER	-	expression tag	UNP Q13363
W	-9	ALA	-	expression tag	UNP Q13363
W	-8	GLY	-	expression tag	UNP Q13363
W	-7	LEU	-	expression tag	UNP Q13363
W	-6	GLU	-	expression tag	UNP Q13363
W	-5	VAL	-	expression tag	UNP Q13363
W	-4	LEU	-	expression tag	UNP Q13363
W	-3	PHE	-	expression tag	UNP Q13363
W	-2	GLN	-	expression tag	UNP Q13363
W	-1	GLY	-	expression tag	UNP Q13363
W	0	PRO	-	expression tag	UNP Q13363
X	-16	HIS	-	expression tag	UNP Q13363
X	-15	HIS	-	expression tag	UNP Q13363
X	-14	HIS	-	expression tag	UNP Q13363
X	-13	HIS	-	expression tag	UNP Q13363
X	-12	HIS	-	expression tag	UNP Q13363
X	-11	HIS	-	expression tag	UNP Q13363
X	-10	SER	-	expression tag	UNP Q13363
X	-9	ALA	-	expression tag	UNP Q13363
X	-8	GLY	-	expression tag	UNP Q13363
X	-7	LEU	-	expression tag	UNP Q13363
X	-6	GLU	-	expression tag	UNP Q13363
X	-5	VAL	-	expression tag	UNP Q13363

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Chain	Residue	Modelled	Actual	Comment	Reference
X	-4	LEU	-	expression tag	UNP Q13363
X	-3	PHE	-	expression tag	UNP Q13363
X	-2	GLN	-	expression tag	UNP Q13363
X	-1	GLY	-	expression tag	UNP Q13363
X	0	PRO	-	expression tag	UNP Q13363

- Molecule 2 is a protein called Retinoic acid-induced protein 2.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	a	22	138	85	22	30	1	0	0
2	b	22	138	85	22	30	1	0	0
2	c	22	138	85	22	30	1	0	0
2	d	22	138	85	22	30	1	0	0
2	e	22	138	85	22	30	1	0	0
2	f	22	138	85	22	30	1	0	0
2	g	22	138	85	22	30	1	0	0
2	h	22	138	85	22	30	1	0	0
2	i	22	138	85	22	30	1	0	0
2	j	22	138	85	22	30	1	0	0

There are 910 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
a	223	HIS	-	expression tag	UNP Q9Y5P3
a	224	HIS	-	expression tag	UNP Q9Y5P3
a	225	HIS	-	expression tag	UNP Q9Y5P3
a	226	HIS	-	expression tag	UNP Q9Y5P3
a	227	HIS	-	expression tag	UNP Q9Y5P3
a	228	HIS	-	expression tag	UNP Q9Y5P3
a	229	PRO	-	expression tag	UNP Q9Y5P3
a	230	MET	-	expression tag	UNP Q9Y5P3
a	231	LYS	-	expression tag	UNP Q9Y5P3

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Chain	Residue	Modelled	Actual	Comment	Reference
a	232	GLN	-	expression tag	UNP Q9Y5P3
a	233	TYR	-	expression tag	UNP Q9Y5P3
a	234	LYS	-	expression tag	UNP Q9Y5P3
a	235	LEU	-	expression tag	UNP Q9Y5P3
a	236	ILE	-	expression tag	UNP Q9Y5P3
a	237	LEU	-	expression tag	UNP Q9Y5P3
a	238	ASN	-	expression tag	UNP Q9Y5P3
a	239	GLY	-	expression tag	UNP Q9Y5P3
a	240	LYS	-	expression tag	UNP Q9Y5P3
a	241	THR	-	expression tag	UNP Q9Y5P3
a	242	LEU	-	expression tag	UNP Q9Y5P3
a	243	LYS	-	expression tag	UNP Q9Y5P3
a	244	GLY	-	expression tag	UNP Q9Y5P3
a	245	GLU	-	expression tag	UNP Q9Y5P3
a	246	THR	-	expression tag	UNP Q9Y5P3
a	247	THR	-	expression tag	UNP Q9Y5P3
a	248	THR	-	expression tag	UNP Q9Y5P3
a	249	GLU	-	expression tag	UNP Q9Y5P3
a	250	ALA	-	expression tag	UNP Q9Y5P3
a	251	VAL	-	expression tag	UNP Q9Y5P3
a	252	ASP	-	expression tag	UNP Q9Y5P3
a	253	ALA	-	expression tag	UNP Q9Y5P3
a	254	ALA	-	expression tag	UNP Q9Y5P3
a	255	THR	-	expression tag	UNP Q9Y5P3
a	256	ALA	-	expression tag	UNP Q9Y5P3
a	257	GLU	-	expression tag	UNP Q9Y5P3
a	258	LYS	-	expression tag	UNP Q9Y5P3
a	259	VAL	-	expression tag	UNP Q9Y5P3
a	260	PHE	-	expression tag	UNP Q9Y5P3
a	261	LYS	-	expression tag	UNP Q9Y5P3
a	262	GLN	-	expression tag	UNP Q9Y5P3
a	263	TYR	-	expression tag	UNP Q9Y5P3
a	264	ALA	-	expression tag	UNP Q9Y5P3
a	265	ASN	-	expression tag	UNP Q9Y5P3
a	266	ASP	-	expression tag	UNP Q9Y5P3
a	267	ASN	-	expression tag	UNP Q9Y5P3
a	268	GLY	-	expression tag	UNP Q9Y5P3
a	269	VAL	-	expression tag	UNP Q9Y5P3
a	270	ASP	-	expression tag	UNP Q9Y5P3
a	271	GLY	-	expression tag	UNP Q9Y5P3
a	272	GLU	-	expression tag	UNP Q9Y5P3
a	273	TRP	-	expression tag	UNP Q9Y5P3

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Chain	Residue	Modelled	Actual	Comment	Reference
a	274	THR	-	expression tag	UNP Q9Y5P3
a	275	TYR	-	expression tag	UNP Q9Y5P3
a	276	ASP	-	expression tag	UNP Q9Y5P3
a	277	ASP	-	expression tag	UNP Q9Y5P3
a	278	ALA	-	expression tag	UNP Q9Y5P3
a	279	THR	-	expression tag	UNP Q9Y5P3
a	280	LYS	-	expression tag	UNP Q9Y5P3
a	281	THR	-	expression tag	UNP Q9Y5P3
a	282	PHE	-	expression tag	UNP Q9Y5P3
a	283	THR	-	expression tag	UNP Q9Y5P3
a	284	VAL	-	expression tag	UNP Q9Y5P3
a	285	THR	-	expression tag	UNP Q9Y5P3
a	286	GLU	-	expression tag	UNP Q9Y5P3
a	287	GLY	-	expression tag	UNP Q9Y5P3
a	288	SER	-	expression tag	UNP Q9Y5P3
a	289	GLY	-	expression tag	UNP Q9Y5P3
a	290	SER	-	expression tag	UNP Q9Y5P3
a	291	GLY	-	expression tag	UNP Q9Y5P3
a	292	SER	-	expression tag	UNP Q9Y5P3
a	293	GLU	-	expression tag	UNP Q9Y5P3
a	294	ASN	-	expression tag	UNP Q9Y5P3
a	295	LEU	-	expression tag	UNP Q9Y5P3
a	296	TYR	-	expression tag	UNP Q9Y5P3
a	297	PHE	-	expression tag	UNP Q9Y5P3
a	298	GLN	-	expression tag	UNP Q9Y5P3
a	299	GLY	-	expression tag	UNP Q9Y5P3
a	300	ALA	-	expression tag	UNP Q9Y5P3
a	301	MET	-	expression tag	UNP Q9Y5P3
a	302	ASP	-	expression tag	UNP Q9Y5P3
a	?	-	GLU	deletion	UNP Q9Y5P3
a	?	-	VAL	deletion	UNP Q9Y5P3
a	?	-	SER	deletion	UNP Q9Y5P3
a	?	-	PRO	deletion	UNP Q9Y5P3
a	?	-	PRO	deletion	UNP Q9Y5P3
a	?	-	ILE	deletion	UNP Q9Y5P3
a	?	-	PHE	deletion	UNP Q9Y5P3
a	?	-	GLN	deletion	UNP Q9Y5P3
a	?	-	GLU	deletion	UNP Q9Y5P3
a	?	-	ASP	deletion	UNP Q9Y5P3
a	?	-	ALA	deletion	UNP Q9Y5P3
b	223	HIS	-	expression tag	UNP Q9Y5P3
b	224	HIS	-	expression tag	UNP Q9Y5P3

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Chain	Residue	Modelled	Actual	Comment	Reference
b	225	HIS	-	expression tag	UNP Q9Y5P3
b	226	HIS	-	expression tag	UNP Q9Y5P3
b	227	HIS	-	expression tag	UNP Q9Y5P3
b	228	HIS	-	expression tag	UNP Q9Y5P3
b	229	PRO	-	expression tag	UNP Q9Y5P3
b	230	MET	-	expression tag	UNP Q9Y5P3
b	231	LYS	-	expression tag	UNP Q9Y5P3
b	232	GLN	-	expression tag	UNP Q9Y5P3
b	233	TYR	-	expression tag	UNP Q9Y5P3
b	234	LYS	-	expression tag	UNP Q9Y5P3
b	235	LEU	-	expression tag	UNP Q9Y5P3
b	236	ILE	-	expression tag	UNP Q9Y5P3
b	237	LEU	-	expression tag	UNP Q9Y5P3
b	238	ASN	-	expression tag	UNP Q9Y5P3
b	239	GLY	-	expression tag	UNP Q9Y5P3
b	240	LYS	-	expression tag	UNP Q9Y5P3
b	241	THR	-	expression tag	UNP Q9Y5P3
b	242	LEU	-	expression tag	UNP Q9Y5P3
b	243	LYS	-	expression tag	UNP Q9Y5P3
b	244	GLY	-	expression tag	UNP Q9Y5P3
b	245	GLU	-	expression tag	UNP Q9Y5P3
b	246	THR	-	expression tag	UNP Q9Y5P3
b	247	THR	-	expression tag	UNP Q9Y5P3
b	248	THR	-	expression tag	UNP Q9Y5P3
b	249	GLU	-	expression tag	UNP Q9Y5P3
b	250	ALA	-	expression tag	UNP Q9Y5P3
b	251	VAL	-	expression tag	UNP Q9Y5P3
b	252	ASP	-	expression tag	UNP Q9Y5P3
b	253	ALA	-	expression tag	UNP Q9Y5P3
b	254	ALA	-	expression tag	UNP Q9Y5P3
b	255	THR	-	expression tag	UNP Q9Y5P3
b	256	ALA	-	expression tag	UNP Q9Y5P3
b	257	GLU	-	expression tag	UNP Q9Y5P3
b	258	LYS	-	expression tag	UNP Q9Y5P3
b	259	VAL	-	expression tag	UNP Q9Y5P3
b	260	PHE	-	expression tag	UNP Q9Y5P3
b	261	LYS	-	expression tag	UNP Q9Y5P3
b	262	GLN	-	expression tag	UNP Q9Y5P3
b	263	TYR	-	expression tag	UNP Q9Y5P3
b	264	ALA	-	expression tag	UNP Q9Y5P3
b	265	ASN	-	expression tag	UNP Q9Y5P3
b	266	ASP	-	expression tag	UNP Q9Y5P3

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Chain	Residue	Modelled	Actual	Comment	Reference
b	267	ASN	-	expression tag	UNP Q9Y5P3
b	268	GLY	-	expression tag	UNP Q9Y5P3
b	269	VAL	-	expression tag	UNP Q9Y5P3
b	270	ASP	-	expression tag	UNP Q9Y5P3
b	271	GLY	-	expression tag	UNP Q9Y5P3
b	272	GLU	-	expression tag	UNP Q9Y5P3
b	273	TRP	-	expression tag	UNP Q9Y5P3
b	274	THR	-	expression tag	UNP Q9Y5P3
b	275	TYR	-	expression tag	UNP Q9Y5P3
b	276	ASP	-	expression tag	UNP Q9Y5P3
b	277	ASP	-	expression tag	UNP Q9Y5P3
b	278	ALA	-	expression tag	UNP Q9Y5P3
b	279	THR	-	expression tag	UNP Q9Y5P3
b	280	LYS	-	expression tag	UNP Q9Y5P3
b	281	THR	-	expression tag	UNP Q9Y5P3
b	282	PHE	-	expression tag	UNP Q9Y5P3
b	283	THR	-	expression tag	UNP Q9Y5P3
b	284	VAL	-	expression tag	UNP Q9Y5P3
b	285	THR	-	expression tag	UNP Q9Y5P3
b	286	GLU	-	expression tag	UNP Q9Y5P3
b	287	GLY	-	expression tag	UNP Q9Y5P3
b	288	SER	-	expression tag	UNP Q9Y5P3
b	289	GLY	-	expression tag	UNP Q9Y5P3
b	290	SER	-	expression tag	UNP Q9Y5P3
b	291	GLY	-	expression tag	UNP Q9Y5P3
b	292	SER	-	expression tag	UNP Q9Y5P3
b	293	GLU	-	expression tag	UNP Q9Y5P3
b	294	ASN	-	expression tag	UNP Q9Y5P3
b	295	LEU	-	expression tag	UNP Q9Y5P3
b	296	TYR	-	expression tag	UNP Q9Y5P3
b	297	PHE	-	expression tag	UNP Q9Y5P3
b	298	GLN	-	expression tag	UNP Q9Y5P3
b	299	GLY	-	expression tag	UNP Q9Y5P3
b	300	ALA	-	expression tag	UNP Q9Y5P3
b	301	MET	-	expression tag	UNP Q9Y5P3
b	302	ASP	-	expression tag	UNP Q9Y5P3
b	?	-	GLU	deletion	UNP Q9Y5P3
b	?	-	VAL	deletion	UNP Q9Y5P3
b	?	-	SER	deletion	UNP Q9Y5P3
b	?	-	PRO	deletion	UNP Q9Y5P3
b	?	-	PRO	deletion	UNP Q9Y5P3
b	?	-	ILE	deletion	UNP Q9Y5P3

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Chain	Residue	Modelled	Actual	Comment	Reference
b	?	-	PHE	deletion	UNP Q9Y5P3
b	?	-	GLN	deletion	UNP Q9Y5P3
b	?	-	GLU	deletion	UNP Q9Y5P3
b	?	-	ASP	deletion	UNP Q9Y5P3
b	?	-	ALA	deletion	UNP Q9Y5P3
c	223	HIS	-	expression tag	UNP Q9Y5P3
c	224	HIS	-	expression tag	UNP Q9Y5P3
c	225	HIS	-	expression tag	UNP Q9Y5P3
c	226	HIS	-	expression tag	UNP Q9Y5P3
c	227	HIS	-	expression tag	UNP Q9Y5P3
c	228	HIS	-	expression tag	UNP Q9Y5P3
c	229	PRO	-	expression tag	UNP Q9Y5P3
c	230	MET	-	expression tag	UNP Q9Y5P3
c	231	LYS	-	expression tag	UNP Q9Y5P3
c	232	GLN	-	expression tag	UNP Q9Y5P3
c	233	TYR	-	expression tag	UNP Q9Y5P3
c	234	LYS	-	expression tag	UNP Q9Y5P3
c	235	LEU	-	expression tag	UNP Q9Y5P3
c	236	ILE	-	expression tag	UNP Q9Y5P3
c	237	LEU	-	expression tag	UNP Q9Y5P3
c	238	ASN	-	expression tag	UNP Q9Y5P3
c	239	GLY	-	expression tag	UNP Q9Y5P3
c	240	LYS	-	expression tag	UNP Q9Y5P3
c	241	THR	-	expression tag	UNP Q9Y5P3
c	242	LEU	-	expression tag	UNP Q9Y5P3
c	243	LYS	-	expression tag	UNP Q9Y5P3
c	244	GLY	-	expression tag	UNP Q9Y5P3
c	245	GLU	-	expression tag	UNP Q9Y5P3
c	246	THR	-	expression tag	UNP Q9Y5P3
c	247	THR	-	expression tag	UNP Q9Y5P3
c	248	THR	-	expression tag	UNP Q9Y5P3
c	249	GLU	-	expression tag	UNP Q9Y5P3
c	250	ALA	-	expression tag	UNP Q9Y5P3
c	251	VAL	-	expression tag	UNP Q9Y5P3
c	252	ASP	-	expression tag	UNP Q9Y5P3
c	253	ALA	-	expression tag	UNP Q9Y5P3
c	254	ALA	-	expression tag	UNP Q9Y5P3
c	255	THR	-	expression tag	UNP Q9Y5P3
c	256	ALA	-	expression tag	UNP Q9Y5P3
c	257	GLU	-	expression tag	UNP Q9Y5P3
c	258	LYS	-	expression tag	UNP Q9Y5P3
c	259	VAL	-	expression tag	UNP Q9Y5P3

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Chain	Residue	Modelled	Actual	Comment	Reference
c	260	PHE	-	expression tag	UNP Q9Y5P3
c	261	LYS	-	expression tag	UNP Q9Y5P3
c	262	GLN	-	expression tag	UNP Q9Y5P3
c	263	TYR	-	expression tag	UNP Q9Y5P3
c	264	ALA	-	expression tag	UNP Q9Y5P3
c	265	ASN	-	expression tag	UNP Q9Y5P3
c	266	ASP	-	expression tag	UNP Q9Y5P3
c	267	ASN	-	expression tag	UNP Q9Y5P3
c	268	GLY	-	expression tag	UNP Q9Y5P3
c	269	VAL	-	expression tag	UNP Q9Y5P3
c	270	ASP	-	expression tag	UNP Q9Y5P3
c	271	GLY	-	expression tag	UNP Q9Y5P3
c	272	GLU	-	expression tag	UNP Q9Y5P3
c	273	TRP	-	expression tag	UNP Q9Y5P3
c	274	THR	-	expression tag	UNP Q9Y5P3
c	275	TYR	-	expression tag	UNP Q9Y5P3
c	276	ASP	-	expression tag	UNP Q9Y5P3
c	277	ASP	-	expression tag	UNP Q9Y5P3
c	278	ALA	-	expression tag	UNP Q9Y5P3
c	279	THR	-	expression tag	UNP Q9Y5P3
c	280	LYS	-	expression tag	UNP Q9Y5P3
c	281	THR	-	expression tag	UNP Q9Y5P3
c	282	PHE	-	expression tag	UNP Q9Y5P3
c	283	THR	-	expression tag	UNP Q9Y5P3
c	284	VAL	-	expression tag	UNP Q9Y5P3
c	285	THR	-	expression tag	UNP Q9Y5P3
c	286	GLU	-	expression tag	UNP Q9Y5P3
c	287	GLY	-	expression tag	UNP Q9Y5P3
c	288	SER	-	expression tag	UNP Q9Y5P3
c	289	GLY	-	expression tag	UNP Q9Y5P3
c	290	SER	-	expression tag	UNP Q9Y5P3
c	291	GLY	-	expression tag	UNP Q9Y5P3
c	292	SER	-	expression tag	UNP Q9Y5P3
c	293	GLU	-	expression tag	UNP Q9Y5P3
c	294	ASN	-	expression tag	UNP Q9Y5P3
c	295	LEU	-	expression tag	UNP Q9Y5P3
c	296	TYR	-	expression tag	UNP Q9Y5P3
c	297	PHE	-	expression tag	UNP Q9Y5P3
c	298	GLN	-	expression tag	UNP Q9Y5P3
c	299	GLY	-	expression tag	UNP Q9Y5P3
c	300	ALA	-	expression tag	UNP Q9Y5P3
c	301	MET	-	expression tag	UNP Q9Y5P3

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Chain	Residue	Modelled	Actual	Comment	Reference
c	302	ASP	-	expression tag	UNP Q9Y5P3
c	?	-	GLU	deletion	UNP Q9Y5P3
c	?	-	VAL	deletion	UNP Q9Y5P3
c	?	-	SER	deletion	UNP Q9Y5P3
c	?	-	PRO	deletion	UNP Q9Y5P3
c	?	-	PRO	deletion	UNP Q9Y5P3
c	?	-	ILE	deletion	UNP Q9Y5P3
c	?	-	PHE	deletion	UNP Q9Y5P3
c	?	-	GLN	deletion	UNP Q9Y5P3
c	?	-	GLU	deletion	UNP Q9Y5P3
c	?	-	ASP	deletion	UNP Q9Y5P3
c	?	-	ALA	deletion	UNP Q9Y5P3
d	223	HIS	-	expression tag	UNP Q9Y5P3
d	224	HIS	-	expression tag	UNP Q9Y5P3
d	225	HIS	-	expression tag	UNP Q9Y5P3
d	226	HIS	-	expression tag	UNP Q9Y5P3
d	227	HIS	-	expression tag	UNP Q9Y5P3
d	228	HIS	-	expression tag	UNP Q9Y5P3
d	229	PRO	-	expression tag	UNP Q9Y5P3
d	230	MET	-	expression tag	UNP Q9Y5P3
d	231	LYS	-	expression tag	UNP Q9Y5P3
d	232	GLN	-	expression tag	UNP Q9Y5P3
d	233	TYR	-	expression tag	UNP Q9Y5P3
d	234	LYS	-	expression tag	UNP Q9Y5P3
d	235	LEU	-	expression tag	UNP Q9Y5P3
d	236	ILE	-	expression tag	UNP Q9Y5P3
d	237	LEU	-	expression tag	UNP Q9Y5P3
d	238	ASN	-	expression tag	UNP Q9Y5P3
d	239	GLY	-	expression tag	UNP Q9Y5P3
d	240	LYS	-	expression tag	UNP Q9Y5P3
d	241	THR	-	expression tag	UNP Q9Y5P3
d	242	LEU	-	expression tag	UNP Q9Y5P3
d	243	LYS	-	expression tag	UNP Q9Y5P3
d	244	GLY	-	expression tag	UNP Q9Y5P3
d	245	GLU	-	expression tag	UNP Q9Y5P3
d	246	THR	-	expression tag	UNP Q9Y5P3
d	247	THR	-	expression tag	UNP Q9Y5P3
d	248	THR	-	expression tag	UNP Q9Y5P3
d	249	GLU	-	expression tag	UNP Q9Y5P3
d	250	ALA	-	expression tag	UNP Q9Y5P3
d	251	VAL	-	expression tag	UNP Q9Y5P3
d	252	ASP	-	expression tag	UNP Q9Y5P3

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Chain	Residue	Modelled	Actual	Comment	Reference
d	253	ALA	-	expression tag	UNP Q9Y5P3
d	254	ALA	-	expression tag	UNP Q9Y5P3
d	255	THR	-	expression tag	UNP Q9Y5P3
d	256	ALA	-	expression tag	UNP Q9Y5P3
d	257	GLU	-	expression tag	UNP Q9Y5P3
d	258	LYS	-	expression tag	UNP Q9Y5P3
d	259	VAL	-	expression tag	UNP Q9Y5P3
d	260	PHE	-	expression tag	UNP Q9Y5P3
d	261	LYS	-	expression tag	UNP Q9Y5P3
d	262	GLN	-	expression tag	UNP Q9Y5P3
d	263	TYR	-	expression tag	UNP Q9Y5P3
d	264	ALA	-	expression tag	UNP Q9Y5P3
d	265	ASN	-	expression tag	UNP Q9Y5P3
d	266	ASP	-	expression tag	UNP Q9Y5P3
d	267	ASN	-	expression tag	UNP Q9Y5P3
d	268	GLY	-	expression tag	UNP Q9Y5P3
d	269	VAL	-	expression tag	UNP Q9Y5P3
d	270	ASP	-	expression tag	UNP Q9Y5P3
d	271	GLY	-	expression tag	UNP Q9Y5P3
d	272	GLU	-	expression tag	UNP Q9Y5P3
d	273	TRP	-	expression tag	UNP Q9Y5P3
d	274	THR	-	expression tag	UNP Q9Y5P3
d	275	TYR	-	expression tag	UNP Q9Y5P3
d	276	ASP	-	expression tag	UNP Q9Y5P3
d	277	ASP	-	expression tag	UNP Q9Y5P3
d	278	ALA	-	expression tag	UNP Q9Y5P3
d	279	THR	-	expression tag	UNP Q9Y5P3
d	280	LYS	-	expression tag	UNP Q9Y5P3
d	281	THR	-	expression tag	UNP Q9Y5P3
d	282	PHE	-	expression tag	UNP Q9Y5P3
d	283	THR	-	expression tag	UNP Q9Y5P3
d	284	VAL	-	expression tag	UNP Q9Y5P3
d	285	THR	-	expression tag	UNP Q9Y5P3
d	286	GLU	-	expression tag	UNP Q9Y5P3
d	287	GLY	-	expression tag	UNP Q9Y5P3
d	288	SER	-	expression tag	UNP Q9Y5P3
d	289	GLY	-	expression tag	UNP Q9Y5P3
d	290	SER	-	expression tag	UNP Q9Y5P3
d	291	GLY	-	expression tag	UNP Q9Y5P3
d	292	SER	-	expression tag	UNP Q9Y5P3
d	293	GLU	-	expression tag	UNP Q9Y5P3
d	294	ASN	-	expression tag	UNP Q9Y5P3

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Chain	Residue	Modelled	Actual	Comment	Reference
d	295	LEU	-	expression tag	UNP Q9Y5P3
d	296	TYR	-	expression tag	UNP Q9Y5P3
d	297	PHE	-	expression tag	UNP Q9Y5P3
d	298	GLN	-	expression tag	UNP Q9Y5P3
d	299	GLY	-	expression tag	UNP Q9Y5P3
d	300	ALA	-	expression tag	UNP Q9Y5P3
d	301	MET	-	expression tag	UNP Q9Y5P3
d	302	ASP	-	expression tag	UNP Q9Y5P3
d	?	-	GLU	deletion	UNP Q9Y5P3
d	?	-	VAL	deletion	UNP Q9Y5P3
d	?	-	SER	deletion	UNP Q9Y5P3
d	?	-	PRO	deletion	UNP Q9Y5P3
d	?	-	PRO	deletion	UNP Q9Y5P3
d	?	-	ILE	deletion	UNP Q9Y5P3
d	?	-	PHE	deletion	UNP Q9Y5P3
d	?	-	GLN	deletion	UNP Q9Y5P3
d	?	-	GLU	deletion	UNP Q9Y5P3
d	?	-	ASP	deletion	UNP Q9Y5P3
d	?	-	ALA	deletion	UNP Q9Y5P3
e	223	HIS	-	expression tag	UNP Q9Y5P3
e	224	HIS	-	expression tag	UNP Q9Y5P3
e	225	HIS	-	expression tag	UNP Q9Y5P3
e	226	HIS	-	expression tag	UNP Q9Y5P3
e	227	HIS	-	expression tag	UNP Q9Y5P3
e	228	HIS	-	expression tag	UNP Q9Y5P3
e	229	PRO	-	expression tag	UNP Q9Y5P3
e	230	MET	-	expression tag	UNP Q9Y5P3
e	231	LYS	-	expression tag	UNP Q9Y5P3
e	232	GLN	-	expression tag	UNP Q9Y5P3
e	233	TYR	-	expression tag	UNP Q9Y5P3
e	234	LYS	-	expression tag	UNP Q9Y5P3
e	235	LEU	-	expression tag	UNP Q9Y5P3
e	236	ILE	-	expression tag	UNP Q9Y5P3
e	237	LEU	-	expression tag	UNP Q9Y5P3
e	238	ASN	-	expression tag	UNP Q9Y5P3
e	239	GLY	-	expression tag	UNP Q9Y5P3
e	240	LYS	-	expression tag	UNP Q9Y5P3
e	241	THR	-	expression tag	UNP Q9Y5P3
e	242	LEU	-	expression tag	UNP Q9Y5P3
e	243	LYS	-	expression tag	UNP Q9Y5P3
e	244	GLY	-	expression tag	UNP Q9Y5P3
e	245	GLU	-	expression tag	UNP Q9Y5P3

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Chain	Residue	Modelled	Actual	Comment	Reference
e	246	THR	-	expression tag	UNP Q9Y5P3
e	247	THR	-	expression tag	UNP Q9Y5P3
e	248	THR	-	expression tag	UNP Q9Y5P3
e	249	GLU	-	expression tag	UNP Q9Y5P3
e	250	ALA	-	expression tag	UNP Q9Y5P3
e	251	VAL	-	expression tag	UNP Q9Y5P3
e	252	ASP	-	expression tag	UNP Q9Y5P3
e	253	ALA	-	expression tag	UNP Q9Y5P3
e	254	ALA	-	expression tag	UNP Q9Y5P3
e	255	THR	-	expression tag	UNP Q9Y5P3
e	256	ALA	-	expression tag	UNP Q9Y5P3
e	257	GLU	-	expression tag	UNP Q9Y5P3
e	258	LYS	-	expression tag	UNP Q9Y5P3
e	259	VAL	-	expression tag	UNP Q9Y5P3
e	260	PHE	-	expression tag	UNP Q9Y5P3
e	261	LYS	-	expression tag	UNP Q9Y5P3
e	262	GLN	-	expression tag	UNP Q9Y5P3
e	263	TYR	-	expression tag	UNP Q9Y5P3
e	264	ALA	-	expression tag	UNP Q9Y5P3
e	265	ASN	-	expression tag	UNP Q9Y5P3
e	266	ASP	-	expression tag	UNP Q9Y5P3
e	267	ASN	-	expression tag	UNP Q9Y5P3
e	268	GLY	-	expression tag	UNP Q9Y5P3
e	269	VAL	-	expression tag	UNP Q9Y5P3
e	270	ASP	-	expression tag	UNP Q9Y5P3
e	271	GLY	-	expression tag	UNP Q9Y5P3
e	272	GLU	-	expression tag	UNP Q9Y5P3
e	273	TRP	-	expression tag	UNP Q9Y5P3
e	274	THR	-	expression tag	UNP Q9Y5P3
e	275	TYR	-	expression tag	UNP Q9Y5P3
e	276	ASP	-	expression tag	UNP Q9Y5P3
e	277	ASP	-	expression tag	UNP Q9Y5P3
e	278	ALA	-	expression tag	UNP Q9Y5P3
e	279	THR	-	expression tag	UNP Q9Y5P3
e	280	LYS	-	expression tag	UNP Q9Y5P3
e	281	THR	-	expression tag	UNP Q9Y5P3
e	282	PHE	-	expression tag	UNP Q9Y5P3
e	283	THR	-	expression tag	UNP Q9Y5P3
e	284	VAL	-	expression tag	UNP Q9Y5P3
e	285	THR	-	expression tag	UNP Q9Y5P3
e	286	GLU	-	expression tag	UNP Q9Y5P3
e	287	GLY	-	expression tag	UNP Q9Y5P3

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Chain	Residue	Modelled	Actual	Comment	Reference
e	288	SER	-	expression tag	UNP Q9Y5P3
e	289	GLY	-	expression tag	UNP Q9Y5P3
e	290	SER	-	expression tag	UNP Q9Y5P3
e	291	GLY	-	expression tag	UNP Q9Y5P3
e	292	SER	-	expression tag	UNP Q9Y5P3
e	293	GLU	-	expression tag	UNP Q9Y5P3
e	294	ASN	-	expression tag	UNP Q9Y5P3
e	295	LEU	-	expression tag	UNP Q9Y5P3
e	296	TYR	-	expression tag	UNP Q9Y5P3
e	297	PHE	-	expression tag	UNP Q9Y5P3
e	298	GLN	-	expression tag	UNP Q9Y5P3
e	299	GLY	-	expression tag	UNP Q9Y5P3
e	300	ALA	-	expression tag	UNP Q9Y5P3
e	301	MET	-	expression tag	UNP Q9Y5P3
e	302	ASP	-	expression tag	UNP Q9Y5P3
e	?	-	GLU	deletion	UNP Q9Y5P3
e	?	-	VAL	deletion	UNP Q9Y5P3
e	?	-	SER	deletion	UNP Q9Y5P3
e	?	-	PRO	deletion	UNP Q9Y5P3
e	?	-	PRO	deletion	UNP Q9Y5P3
e	?	-	ILE	deletion	UNP Q9Y5P3
e	?	-	PHE	deletion	UNP Q9Y5P3
e	?	-	GLN	deletion	UNP Q9Y5P3
e	?	-	GLU	deletion	UNP Q9Y5P3
e	?	-	ASP	deletion	UNP Q9Y5P3
e	?	-	ALA	deletion	UNP Q9Y5P3
f	223	HIS	-	expression tag	UNP Q9Y5P3
f	224	HIS	-	expression tag	UNP Q9Y5P3
f	225	HIS	-	expression tag	UNP Q9Y5P3
f	226	HIS	-	expression tag	UNP Q9Y5P3
f	227	HIS	-	expression tag	UNP Q9Y5P3
f	228	HIS	-	expression tag	UNP Q9Y5P3
f	229	PRO	-	expression tag	UNP Q9Y5P3
f	230	MET	-	expression tag	UNP Q9Y5P3
f	231	LYS	-	expression tag	UNP Q9Y5P3
f	232	GLN	-	expression tag	UNP Q9Y5P3
f	233	TYR	-	expression tag	UNP Q9Y5P3
f	234	LYS	-	expression tag	UNP Q9Y5P3
f	235	LEU	-	expression tag	UNP Q9Y5P3
f	236	ILE	-	expression tag	UNP Q9Y5P3
f	237	LEU	-	expression tag	UNP Q9Y5P3
f	238	ASN	-	expression tag	UNP Q9Y5P3

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Chain	Residue	Modelled	Actual	Comment	Reference
f	239	GLY	-	expression tag	UNP Q9Y5P3
f	240	LYS	-	expression tag	UNP Q9Y5P3
f	241	THR	-	expression tag	UNP Q9Y5P3
f	242	LEU	-	expression tag	UNP Q9Y5P3
f	243	LYS	-	expression tag	UNP Q9Y5P3
f	244	GLY	-	expression tag	UNP Q9Y5P3
f	245	GLU	-	expression tag	UNP Q9Y5P3
f	246	THR	-	expression tag	UNP Q9Y5P3
f	247	THR	-	expression tag	UNP Q9Y5P3
f	248	THR	-	expression tag	UNP Q9Y5P3
f	249	GLU	-	expression tag	UNP Q9Y5P3
f	250	ALA	-	expression tag	UNP Q9Y5P3
f	251	VAL	-	expression tag	UNP Q9Y5P3
f	252	ASP	-	expression tag	UNP Q9Y5P3
f	253	ALA	-	expression tag	UNP Q9Y5P3
f	254	ALA	-	expression tag	UNP Q9Y5P3
f	255	THR	-	expression tag	UNP Q9Y5P3
f	256	ALA	-	expression tag	UNP Q9Y5P3
f	257	GLU	-	expression tag	UNP Q9Y5P3
f	258	LYS	-	expression tag	UNP Q9Y5P3
f	259	VAL	-	expression tag	UNP Q9Y5P3
f	260	PHE	-	expression tag	UNP Q9Y5P3
f	261	LYS	-	expression tag	UNP Q9Y5P3
f	262	GLN	-	expression tag	UNP Q9Y5P3
f	263	TYR	-	expression tag	UNP Q9Y5P3
f	264	ALA	-	expression tag	UNP Q9Y5P3
f	265	ASN	-	expression tag	UNP Q9Y5P3
f	266	ASP	-	expression tag	UNP Q9Y5P3
f	267	ASN	-	expression tag	UNP Q9Y5P3
f	268	GLY	-	expression tag	UNP Q9Y5P3
f	269	VAL	-	expression tag	UNP Q9Y5P3
f	270	ASP	-	expression tag	UNP Q9Y5P3
f	271	GLY	-	expression tag	UNP Q9Y5P3
f	272	GLU	-	expression tag	UNP Q9Y5P3
f	273	TRP	-	expression tag	UNP Q9Y5P3
f	274	THR	-	expression tag	UNP Q9Y5P3
f	275	TYR	-	expression tag	UNP Q9Y5P3
f	276	ASP	-	expression tag	UNP Q9Y5P3
f	277	ASP	-	expression tag	UNP Q9Y5P3
f	278	ALA	-	expression tag	UNP Q9Y5P3
f	279	THR	-	expression tag	UNP Q9Y5P3
f	280	LYS	-	expression tag	UNP Q9Y5P3

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Chain	Residue	Modelled	Actual	Comment	Reference
f	281	THR	-	expression tag	UNP Q9Y5P3
f	282	PHE	-	expression tag	UNP Q9Y5P3
f	283	THR	-	expression tag	UNP Q9Y5P3
f	284	VAL	-	expression tag	UNP Q9Y5P3
f	285	THR	-	expression tag	UNP Q9Y5P3
f	286	GLU	-	expression tag	UNP Q9Y5P3
f	287	GLY	-	expression tag	UNP Q9Y5P3
f	288	SER	-	expression tag	UNP Q9Y5P3
f	289	GLY	-	expression tag	UNP Q9Y5P3
f	290	SER	-	expression tag	UNP Q9Y5P3
f	291	GLY	-	expression tag	UNP Q9Y5P3
f	292	SER	-	expression tag	UNP Q9Y5P3
f	293	GLU	-	expression tag	UNP Q9Y5P3
f	294	ASN	-	expression tag	UNP Q9Y5P3
f	295	LEU	-	expression tag	UNP Q9Y5P3
f	296	TYR	-	expression tag	UNP Q9Y5P3
f	297	PHE	-	expression tag	UNP Q9Y5P3
f	298	GLN	-	expression tag	UNP Q9Y5P3
f	299	GLY	-	expression tag	UNP Q9Y5P3
f	300	ALA	-	expression tag	UNP Q9Y5P3
f	301	MET	-	expression tag	UNP Q9Y5P3
f	302	ASP	-	expression tag	UNP Q9Y5P3
f	?	-	GLU	deletion	UNP Q9Y5P3
f	?	-	VAL	deletion	UNP Q9Y5P3
f	?	-	SER	deletion	UNP Q9Y5P3
f	?	-	PRO	deletion	UNP Q9Y5P3
f	?	-	PRO	deletion	UNP Q9Y5P3
f	?	-	ILE	deletion	UNP Q9Y5P3
f	?	-	PHE	deletion	UNP Q9Y5P3
f	?	-	GLN	deletion	UNP Q9Y5P3
f	?	-	GLU	deletion	UNP Q9Y5P3
f	?	-	ASP	deletion	UNP Q9Y5P3
f	?	-	ALA	deletion	UNP Q9Y5P3
g	223	HIS	-	expression tag	UNP Q9Y5P3
g	224	HIS	-	expression tag	UNP Q9Y5P3
g	225	HIS	-	expression tag	UNP Q9Y5P3
g	226	HIS	-	expression tag	UNP Q9Y5P3
g	227	HIS	-	expression tag	UNP Q9Y5P3
g	228	HIS	-	expression tag	UNP Q9Y5P3
g	229	PRO	-	expression tag	UNP Q9Y5P3
g	230	MET	-	expression tag	UNP Q9Y5P3
g	231	LYS	-	expression tag	UNP Q9Y5P3

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Chain	Residue	Modelled	Actual	Comment	Reference
g	232	GLN	-	expression tag	UNP Q9Y5P3
g	233	TYR	-	expression tag	UNP Q9Y5P3
g	234	LYS	-	expression tag	UNP Q9Y5P3
g	235	LEU	-	expression tag	UNP Q9Y5P3
g	236	ILE	-	expression tag	UNP Q9Y5P3
g	237	LEU	-	expression tag	UNP Q9Y5P3
g	238	ASN	-	expression tag	UNP Q9Y5P3
g	239	GLY	-	expression tag	UNP Q9Y5P3
g	240	LYS	-	expression tag	UNP Q9Y5P3
g	241	THR	-	expression tag	UNP Q9Y5P3
g	242	LEU	-	expression tag	UNP Q9Y5P3
g	243	LYS	-	expression tag	UNP Q9Y5P3
g	244	GLY	-	expression tag	UNP Q9Y5P3
g	245	GLU	-	expression tag	UNP Q9Y5P3
g	246	THR	-	expression tag	UNP Q9Y5P3
g	247	THR	-	expression tag	UNP Q9Y5P3
g	248	THR	-	expression tag	UNP Q9Y5P3
g	249	GLU	-	expression tag	UNP Q9Y5P3
g	250	ALA	-	expression tag	UNP Q9Y5P3
g	251	VAL	-	expression tag	UNP Q9Y5P3
g	252	ASP	-	expression tag	UNP Q9Y5P3
g	253	ALA	-	expression tag	UNP Q9Y5P3
g	254	ALA	-	expression tag	UNP Q9Y5P3
g	255	THR	-	expression tag	UNP Q9Y5P3
g	256	ALA	-	expression tag	UNP Q9Y5P3
g	257	GLU	-	expression tag	UNP Q9Y5P3
g	258	LYS	-	expression tag	UNP Q9Y5P3
g	259	VAL	-	expression tag	UNP Q9Y5P3
g	260	PHE	-	expression tag	UNP Q9Y5P3
g	261	LYS	-	expression tag	UNP Q9Y5P3
g	262	GLN	-	expression tag	UNP Q9Y5P3
g	263	TYR	-	expression tag	UNP Q9Y5P3
g	264	ALA	-	expression tag	UNP Q9Y5P3
g	265	ASN	-	expression tag	UNP Q9Y5P3
g	266	ASP	-	expression tag	UNP Q9Y5P3
g	267	ASN	-	expression tag	UNP Q9Y5P3
g	268	GLY	-	expression tag	UNP Q9Y5P3
g	269	VAL	-	expression tag	UNP Q9Y5P3
g	270	ASP	-	expression tag	UNP Q9Y5P3
g	271	GLY	-	expression tag	UNP Q9Y5P3
g	272	GLU	-	expression tag	UNP Q9Y5P3
g	273	TRP	-	expression tag	UNP Q9Y5P3

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Chain	Residue	Modelled	Actual	Comment	Reference
g	274	THR	-	expression tag	UNP Q9Y5P3
g	275	TYR	-	expression tag	UNP Q9Y5P3
g	276	ASP	-	expression tag	UNP Q9Y5P3
g	277	ASP	-	expression tag	UNP Q9Y5P3
g	278	ALA	-	expression tag	UNP Q9Y5P3
g	279	THR	-	expression tag	UNP Q9Y5P3
g	280	LYS	-	expression tag	UNP Q9Y5P3
g	281	THR	-	expression tag	UNP Q9Y5P3
g	282	PHE	-	expression tag	UNP Q9Y5P3
g	283	THR	-	expression tag	UNP Q9Y5P3
g	284	VAL	-	expression tag	UNP Q9Y5P3
g	285	THR	-	expression tag	UNP Q9Y5P3
g	286	GLU	-	expression tag	UNP Q9Y5P3
g	287	GLY	-	expression tag	UNP Q9Y5P3
g	288	SER	-	expression tag	UNP Q9Y5P3
g	289	GLY	-	expression tag	UNP Q9Y5P3
g	290	SER	-	expression tag	UNP Q9Y5P3
g	291	GLY	-	expression tag	UNP Q9Y5P3
g	292	SER	-	expression tag	UNP Q9Y5P3
g	293	GLU	-	expression tag	UNP Q9Y5P3
g	294	ASN	-	expression tag	UNP Q9Y5P3
g	295	LEU	-	expression tag	UNP Q9Y5P3
g	296	TYR	-	expression tag	UNP Q9Y5P3
g	297	PHE	-	expression tag	UNP Q9Y5P3
g	298	GLN	-	expression tag	UNP Q9Y5P3
g	299	GLY	-	expression tag	UNP Q9Y5P3
g	300	ALA	-	expression tag	UNP Q9Y5P3
g	301	MET	-	expression tag	UNP Q9Y5P3
g	302	ASP	-	expression tag	UNP Q9Y5P3
g	?	-	GLU	deletion	UNP Q9Y5P3
g	?	-	VAL	deletion	UNP Q9Y5P3
g	?	-	SER	deletion	UNP Q9Y5P3
g	?	-	PRO	deletion	UNP Q9Y5P3
g	?	-	PRO	deletion	UNP Q9Y5P3
g	?	-	ILE	deletion	UNP Q9Y5P3
g	?	-	PHE	deletion	UNP Q9Y5P3
g	?	-	GLN	deletion	UNP Q9Y5P3
g	?	-	GLU	deletion	UNP Q9Y5P3
g	?	-	ASP	deletion	UNP Q9Y5P3
g	?	-	ALA	deletion	UNP Q9Y5P3
h	223	HIS	-	expression tag	UNP Q9Y5P3
h	224	HIS	-	expression tag	UNP Q9Y5P3

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Chain	Residue	Modelled	Actual	Comment	Reference
h	225	HIS	-	expression tag	UNP Q9Y5P3
h	226	HIS	-	expression tag	UNP Q9Y5P3
h	227	HIS	-	expression tag	UNP Q9Y5P3
h	228	HIS	-	expression tag	UNP Q9Y5P3
h	229	PRO	-	expression tag	UNP Q9Y5P3
h	230	MET	-	expression tag	UNP Q9Y5P3
h	231	LYS	-	expression tag	UNP Q9Y5P3
h	232	GLN	-	expression tag	UNP Q9Y5P3
h	233	TYR	-	expression tag	UNP Q9Y5P3
h	234	LYS	-	expression tag	UNP Q9Y5P3
h	235	LEU	-	expression tag	UNP Q9Y5P3
h	236	ILE	-	expression tag	UNP Q9Y5P3
h	237	LEU	-	expression tag	UNP Q9Y5P3
h	238	ASN	-	expression tag	UNP Q9Y5P3
h	239	GLY	-	expression tag	UNP Q9Y5P3
h	240	LYS	-	expression tag	UNP Q9Y5P3
h	241	THR	-	expression tag	UNP Q9Y5P3
h	242	LEU	-	expression tag	UNP Q9Y5P3
h	243	LYS	-	expression tag	UNP Q9Y5P3
h	244	GLY	-	expression tag	UNP Q9Y5P3
h	245	GLU	-	expression tag	UNP Q9Y5P3
h	246	THR	-	expression tag	UNP Q9Y5P3
h	247	THR	-	expression tag	UNP Q9Y5P3
h	248	THR	-	expression tag	UNP Q9Y5P3
h	249	GLU	-	expression tag	UNP Q9Y5P3
h	250	ALA	-	expression tag	UNP Q9Y5P3
h	251	VAL	-	expression tag	UNP Q9Y5P3
h	252	ASP	-	expression tag	UNP Q9Y5P3
h	253	ALA	-	expression tag	UNP Q9Y5P3
h	254	ALA	-	expression tag	UNP Q9Y5P3
h	255	THR	-	expression tag	UNP Q9Y5P3
h	256	ALA	-	expression tag	UNP Q9Y5P3
h	257	GLU	-	expression tag	UNP Q9Y5P3
h	258	LYS	-	expression tag	UNP Q9Y5P3
h	259	VAL	-	expression tag	UNP Q9Y5P3
h	260	PHE	-	expression tag	UNP Q9Y5P3
h	261	LYS	-	expression tag	UNP Q9Y5P3
h	262	GLN	-	expression tag	UNP Q9Y5P3
h	263	TYR	-	expression tag	UNP Q9Y5P3
h	264	ALA	-	expression tag	UNP Q9Y5P3
h	265	ASN	-	expression tag	UNP Q9Y5P3
h	266	ASP	-	expression tag	UNP Q9Y5P3

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Chain	Residue	Modelled	Actual	Comment	Reference
h	267	ASN	-	expression tag	UNP Q9Y5P3
h	268	GLY	-	expression tag	UNP Q9Y5P3
h	269	VAL	-	expression tag	UNP Q9Y5P3
h	270	ASP	-	expression tag	UNP Q9Y5P3
h	271	GLY	-	expression tag	UNP Q9Y5P3
h	272	GLU	-	expression tag	UNP Q9Y5P3
h	273	TRP	-	expression tag	UNP Q9Y5P3
h	274	THR	-	expression tag	UNP Q9Y5P3
h	275	TYR	-	expression tag	UNP Q9Y5P3
h	276	ASP	-	expression tag	UNP Q9Y5P3
h	277	ASP	-	expression tag	UNP Q9Y5P3
h	278	ALA	-	expression tag	UNP Q9Y5P3
h	279	THR	-	expression tag	UNP Q9Y5P3
h	280	LYS	-	expression tag	UNP Q9Y5P3
h	281	THR	-	expression tag	UNP Q9Y5P3
h	282	PHE	-	expression tag	UNP Q9Y5P3
h	283	THR	-	expression tag	UNP Q9Y5P3
h	284	VAL	-	expression tag	UNP Q9Y5P3
h	285	THR	-	expression tag	UNP Q9Y5P3
h	286	GLU	-	expression tag	UNP Q9Y5P3
h	287	GLY	-	expression tag	UNP Q9Y5P3
h	288	SER	-	expression tag	UNP Q9Y5P3
h	289	GLY	-	expression tag	UNP Q9Y5P3
h	290	SER	-	expression tag	UNP Q9Y5P3
h	291	GLY	-	expression tag	UNP Q9Y5P3
h	292	SER	-	expression tag	UNP Q9Y5P3
h	293	GLU	-	expression tag	UNP Q9Y5P3
h	294	ASN	-	expression tag	UNP Q9Y5P3
h	295	LEU	-	expression tag	UNP Q9Y5P3
h	296	TYR	-	expression tag	UNP Q9Y5P3
h	297	PHE	-	expression tag	UNP Q9Y5P3
h	298	GLN	-	expression tag	UNP Q9Y5P3
h	299	GLY	-	expression tag	UNP Q9Y5P3
h	300	ALA	-	expression tag	UNP Q9Y5P3
h	301	MET	-	expression tag	UNP Q9Y5P3
h	302	ASP	-	expression tag	UNP Q9Y5P3
h	?	-	GLU	deletion	UNP Q9Y5P3
h	?	-	VAL	deletion	UNP Q9Y5P3
h	?	-	SER	deletion	UNP Q9Y5P3
h	?	-	PRO	deletion	UNP Q9Y5P3
h	?	-	PRO	deletion	UNP Q9Y5P3
h	?	-	ILE	deletion	UNP Q9Y5P3

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Chain	Residue	Modelled	Actual	Comment	Reference
h	?	-	PHE	deletion	UNP Q9Y5P3
h	?	-	GLN	deletion	UNP Q9Y5P3
h	?	-	GLU	deletion	UNP Q9Y5P3
h	?	-	ASP	deletion	UNP Q9Y5P3
h	?	-	ALA	deletion	UNP Q9Y5P3
i	223	HIS	-	expression tag	UNP Q9Y5P3
i	224	HIS	-	expression tag	UNP Q9Y5P3
i	225	HIS	-	expression tag	UNP Q9Y5P3
i	226	HIS	-	expression tag	UNP Q9Y5P3
i	227	HIS	-	expression tag	UNP Q9Y5P3
i	228	HIS	-	expression tag	UNP Q9Y5P3
i	229	PRO	-	expression tag	UNP Q9Y5P3
i	230	MET	-	expression tag	UNP Q9Y5P3
i	231	LYS	-	expression tag	UNP Q9Y5P3
i	232	GLN	-	expression tag	UNP Q9Y5P3
i	233	TYR	-	expression tag	UNP Q9Y5P3
i	234	LYS	-	expression tag	UNP Q9Y5P3
i	235	LEU	-	expression tag	UNP Q9Y5P3
i	236	ILE	-	expression tag	UNP Q9Y5P3
i	237	LEU	-	expression tag	UNP Q9Y5P3
i	238	ASN	-	expression tag	UNP Q9Y5P3
i	239	GLY	-	expression tag	UNP Q9Y5P3
i	240	LYS	-	expression tag	UNP Q9Y5P3
i	241	THR	-	expression tag	UNP Q9Y5P3
i	242	LEU	-	expression tag	UNP Q9Y5P3
i	243	LYS	-	expression tag	UNP Q9Y5P3
i	244	GLY	-	expression tag	UNP Q9Y5P3
i	245	GLU	-	expression tag	UNP Q9Y5P3
i	246	THR	-	expression tag	UNP Q9Y5P3
i	247	THR	-	expression tag	UNP Q9Y5P3
i	248	THR	-	expression tag	UNP Q9Y5P3
i	249	GLU	-	expression tag	UNP Q9Y5P3
i	250	ALA	-	expression tag	UNP Q9Y5P3
i	251	VAL	-	expression tag	UNP Q9Y5P3
i	252	ASP	-	expression tag	UNP Q9Y5P3
i	253	ALA	-	expression tag	UNP Q9Y5P3
i	254	ALA	-	expression tag	UNP Q9Y5P3
i	255	THR	-	expression tag	UNP Q9Y5P3
i	256	ALA	-	expression tag	UNP Q9Y5P3
i	257	GLU	-	expression tag	UNP Q9Y5P3
i	258	LYS	-	expression tag	UNP Q9Y5P3
i	259	VAL	-	expression tag	UNP Q9Y5P3

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Chain	Residue	Modelled	Actual	Comment	Reference
i	260	PHE	-	expression tag	UNP Q9Y5P3
i	261	LYS	-	expression tag	UNP Q9Y5P3
i	262	GLN	-	expression tag	UNP Q9Y5P3
i	263	TYR	-	expression tag	UNP Q9Y5P3
i	264	ALA	-	expression tag	UNP Q9Y5P3
i	265	ASN	-	expression tag	UNP Q9Y5P3
i	266	ASP	-	expression tag	UNP Q9Y5P3
i	267	ASN	-	expression tag	UNP Q9Y5P3
i	268	GLY	-	expression tag	UNP Q9Y5P3
i	269	VAL	-	expression tag	UNP Q9Y5P3
i	270	ASP	-	expression tag	UNP Q9Y5P3
i	271	GLY	-	expression tag	UNP Q9Y5P3
i	272	GLU	-	expression tag	UNP Q9Y5P3
i	273	TRP	-	expression tag	UNP Q9Y5P3
i	274	THR	-	expression tag	UNP Q9Y5P3
i	275	TYR	-	expression tag	UNP Q9Y5P3
i	276	ASP	-	expression tag	UNP Q9Y5P3
i	277	ASP	-	expression tag	UNP Q9Y5P3
i	278	ALA	-	expression tag	UNP Q9Y5P3
i	279	THR	-	expression tag	UNP Q9Y5P3
i	280	LYS	-	expression tag	UNP Q9Y5P3
i	281	THR	-	expression tag	UNP Q9Y5P3
i	282	PHE	-	expression tag	UNP Q9Y5P3
i	283	THR	-	expression tag	UNP Q9Y5P3
i	284	VAL	-	expression tag	UNP Q9Y5P3
i	285	THR	-	expression tag	UNP Q9Y5P3
i	286	GLU	-	expression tag	UNP Q9Y5P3
i	287	GLY	-	expression tag	UNP Q9Y5P3
i	288	SER	-	expression tag	UNP Q9Y5P3
i	289	GLY	-	expression tag	UNP Q9Y5P3
i	290	SER	-	expression tag	UNP Q9Y5P3
i	291	GLY	-	expression tag	UNP Q9Y5P3
i	292	SER	-	expression tag	UNP Q9Y5P3
i	293	GLU	-	expression tag	UNP Q9Y5P3
i	294	ASN	-	expression tag	UNP Q9Y5P3
i	295	LEU	-	expression tag	UNP Q9Y5P3
i	296	TYR	-	expression tag	UNP Q9Y5P3
i	297	PHE	-	expression tag	UNP Q9Y5P3
i	298	GLN	-	expression tag	UNP Q9Y5P3
i	299	GLY	-	expression tag	UNP Q9Y5P3
i	300	ALA	-	expression tag	UNP Q9Y5P3
i	301	MET	-	expression tag	UNP Q9Y5P3

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Chain	Residue	Modelled	Actual	Comment	Reference
i	302	ASP	-	expression tag	UNP Q9Y5P3
i	?	-	GLU	deletion	UNP Q9Y5P3
i	?	-	VAL	deletion	UNP Q9Y5P3
i	?	-	SER	deletion	UNP Q9Y5P3
i	?	-	PRO	deletion	UNP Q9Y5P3
i	?	-	PRO	deletion	UNP Q9Y5P3
i	?	-	ILE	deletion	UNP Q9Y5P3
i	?	-	PHE	deletion	UNP Q9Y5P3
i	?	-	GLN	deletion	UNP Q9Y5P3
i	?	-	GLU	deletion	UNP Q9Y5P3
i	?	-	ASP	deletion	UNP Q9Y5P3
i	?	-	ALA	deletion	UNP Q9Y5P3
j	223	HIS	-	expression tag	UNP Q9Y5P3
j	224	HIS	-	expression tag	UNP Q9Y5P3
j	225	HIS	-	expression tag	UNP Q9Y5P3
j	226	HIS	-	expression tag	UNP Q9Y5P3
j	227	HIS	-	expression tag	UNP Q9Y5P3
j	228	HIS	-	expression tag	UNP Q9Y5P3
j	229	PRO	-	expression tag	UNP Q9Y5P3
j	230	MET	-	expression tag	UNP Q9Y5P3
j	231	LYS	-	expression tag	UNP Q9Y5P3
j	232	GLN	-	expression tag	UNP Q9Y5P3
j	233	TYR	-	expression tag	UNP Q9Y5P3
j	234	LYS	-	expression tag	UNP Q9Y5P3
j	235	LEU	-	expression tag	UNP Q9Y5P3
j	236	ILE	-	expression tag	UNP Q9Y5P3
j	237	LEU	-	expression tag	UNP Q9Y5P3
j	238	ASN	-	expression tag	UNP Q9Y5P3
j	239	GLY	-	expression tag	UNP Q9Y5P3
j	240	LYS	-	expression tag	UNP Q9Y5P3
j	241	THR	-	expression tag	UNP Q9Y5P3
j	242	LEU	-	expression tag	UNP Q9Y5P3
j	243	LYS	-	expression tag	UNP Q9Y5P3
j	244	GLY	-	expression tag	UNP Q9Y5P3
j	245	GLU	-	expression tag	UNP Q9Y5P3
j	246	THR	-	expression tag	UNP Q9Y5P3
j	247	THR	-	expression tag	UNP Q9Y5P3
j	248	THR	-	expression tag	UNP Q9Y5P3
j	249	GLU	-	expression tag	UNP Q9Y5P3
j	250	ALA	-	expression tag	UNP Q9Y5P3
j	251	VAL	-	expression tag	UNP Q9Y5P3
j	252	ASP	-	expression tag	UNP Q9Y5P3

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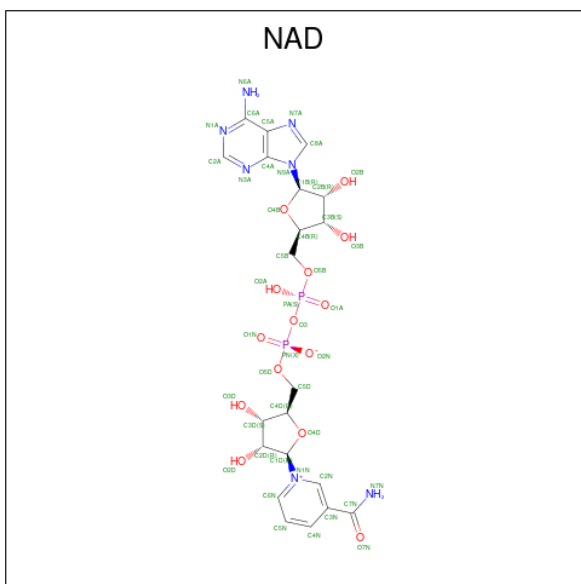
Chain	Residue	Modelled	Actual	Comment	Reference
j	253	ALA	-	expression tag	UNP Q9Y5P3
j	254	ALA	-	expression tag	UNP Q9Y5P3
j	255	THR	-	expression tag	UNP Q9Y5P3
j	256	ALA	-	expression tag	UNP Q9Y5P3
j	257	GLU	-	expression tag	UNP Q9Y5P3
j	258	LYS	-	expression tag	UNP Q9Y5P3
j	259	VAL	-	expression tag	UNP Q9Y5P3
j	260	PHE	-	expression tag	UNP Q9Y5P3
j	261	LYS	-	expression tag	UNP Q9Y5P3
j	262	GLN	-	expression tag	UNP Q9Y5P3
j	263	TYR	-	expression tag	UNP Q9Y5P3
j	264	ALA	-	expression tag	UNP Q9Y5P3
j	265	ASN	-	expression tag	UNP Q9Y5P3
j	266	ASP	-	expression tag	UNP Q9Y5P3
j	267	ASN	-	expression tag	UNP Q9Y5P3
j	268	GLY	-	expression tag	UNP Q9Y5P3
j	269	VAL	-	expression tag	UNP Q9Y5P3
j	270	ASP	-	expression tag	UNP Q9Y5P3
j	271	GLY	-	expression tag	UNP Q9Y5P3
j	272	GLU	-	expression tag	UNP Q9Y5P3
j	273	TRP	-	expression tag	UNP Q9Y5P3
j	274	THR	-	expression tag	UNP Q9Y5P3
j	275	TYR	-	expression tag	UNP Q9Y5P3
j	276	ASP	-	expression tag	UNP Q9Y5P3
j	277	ASP	-	expression tag	UNP Q9Y5P3
j	278	ALA	-	expression tag	UNP Q9Y5P3
j	279	THR	-	expression tag	UNP Q9Y5P3
j	280	LYS	-	expression tag	UNP Q9Y5P3
j	281	THR	-	expression tag	UNP Q9Y5P3
j	282	PHE	-	expression tag	UNP Q9Y5P3
j	283	THR	-	expression tag	UNP Q9Y5P3
j	284	VAL	-	expression tag	UNP Q9Y5P3
j	285	THR	-	expression tag	UNP Q9Y5P3
j	286	GLU	-	expression tag	UNP Q9Y5P3
j	287	GLY	-	expression tag	UNP Q9Y5P3
j	288	SER	-	expression tag	UNP Q9Y5P3
j	289	GLY	-	expression tag	UNP Q9Y5P3
j	290	SER	-	expression tag	UNP Q9Y5P3
j	291	GLY	-	expression tag	UNP Q9Y5P3
j	292	SER	-	expression tag	UNP Q9Y5P3
j	293	GLU	-	expression tag	UNP Q9Y5P3
j	294	ASN	-	expression tag	UNP Q9Y5P3

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Chain	Residue	Modelled	Actual	Comment	Reference
j	295	LEU	-	expression tag	UNP Q9Y5P3
j	296	TYR	-	expression tag	UNP Q9Y5P3
j	297	PHE	-	expression tag	UNP Q9Y5P3
j	298	GLN	-	expression tag	UNP Q9Y5P3
j	299	GLY	-	expression tag	UNP Q9Y5P3
j	300	ALA	-	expression tag	UNP Q9Y5P3
j	301	MET	-	expression tag	UNP Q9Y5P3
j	302	ASP	-	expression tag	UNP Q9Y5P3
j	?	-	GLU	deletion	UNP Q9Y5P3
j	?	-	VAL	deletion	UNP Q9Y5P3
j	?	-	SER	deletion	UNP Q9Y5P3
j	?	-	PRO	deletion	UNP Q9Y5P3
j	?	-	PRO	deletion	UNP Q9Y5P3
j	?	-	ILE	deletion	UNP Q9Y5P3
j	?	-	PHE	deletion	UNP Q9Y5P3
j	?	-	GLN	deletion	UNP Q9Y5P3
j	?	-	GLU	deletion	UNP Q9Y5P3
j	?	-	ASP	deletion	UNP Q9Y5P3
j	?	-	ALA	deletion	UNP Q9Y5P3

- Molecule 3 is NICOTINAMIDE-ADENINE-DINUCLEOTIDE (three-letter code: NAD) (formula:  $C_{21}H_{27}N_7O_{14}P_2$ ) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				AltConf	
			Total	C	N	O		P
3	A	1	44	21	7	14	2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
3	B	1	44	21	7	14	2	0
3	C	1	44	21	7	14	2	0
3	D	1	44	21	7	14	2	0
3	E	1	44	21	7	14	2	0
3	F	1	44	21	7	14	2	0
3	G	1	44	21	7	14	2	0
3	H	1	44	21	7	14	2	0
3	I	1	44	21	7	14	2	0
3	J	1	44	21	7	14	2	0
3	K	1	44	21	7	14	2	0
3	L	1	44	21	7	14	2	0
3	M	1	44	21	7	14	2	0
3	N	1	44	21	7	14	2	0
3	O	1	44	21	7	14	2	0
3	P	1	44	21	7	14	2	0
3	Q	1	44	21	7	14	2	0
3	R	1	44	21	7	14	2	0
3	S	1	44	21	7	14	2	0
3	T	1	44	21	7	14	2	0
3	U	1	44	21	7	14	2	0
3	V	1	44	21	7	14	2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
3	W	1	44	21	7	14	2	0
3	X	1	44	21	7	14	2	0



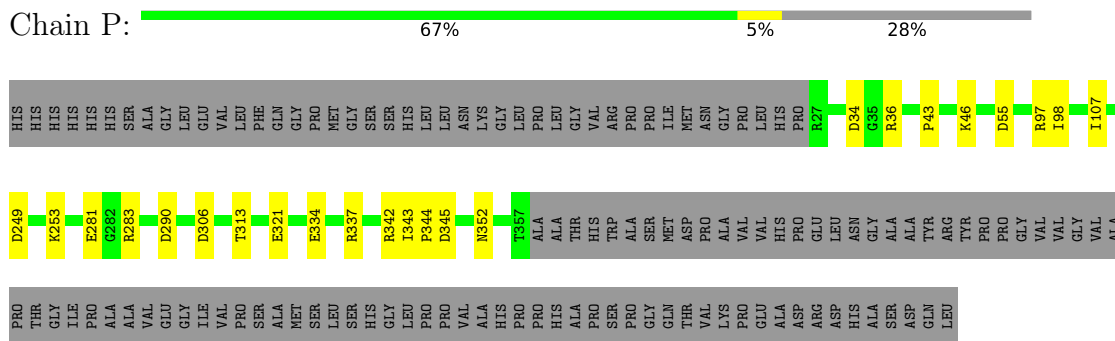




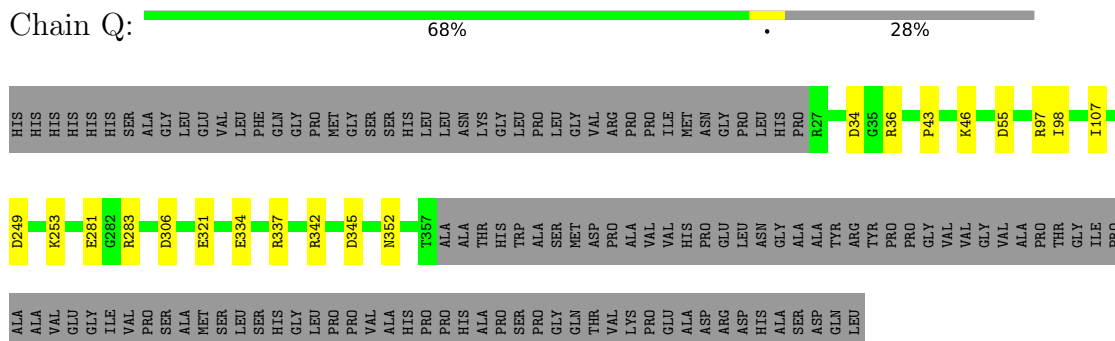




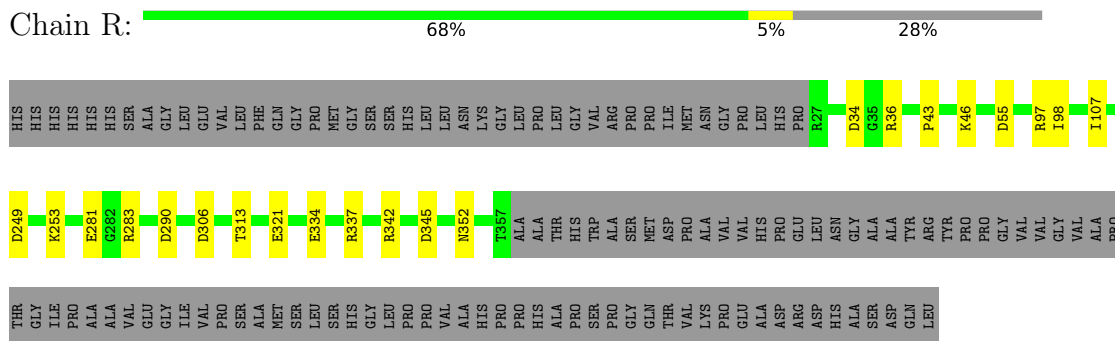
• Molecule 1: C-terminal-binding protein 1



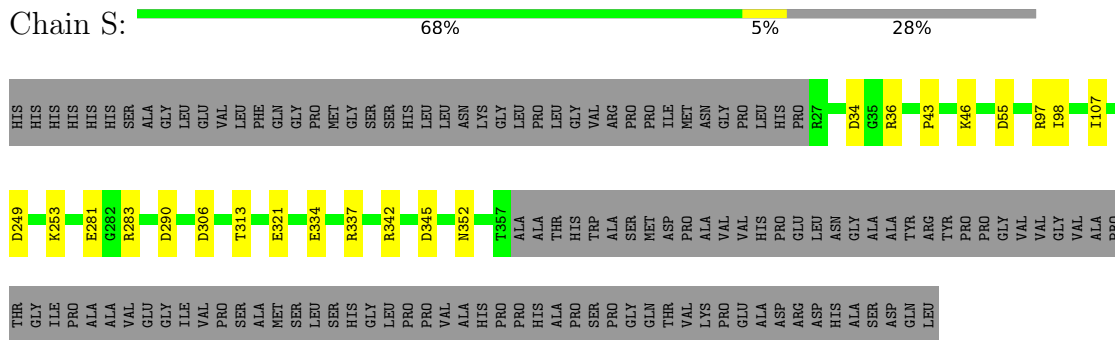
• Molecule 1: C-terminal-binding protein 1



• Molecule 1: C-terminal-binding protein 1



• Molecule 1: C-terminal-binding protein 1













## 4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, D2	Depositor
Number of particles used	189823	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ( $e^-/\text{\AA}^2$ )	42	Depositor
Minimum defocus (nm)	750	Depositor
Maximum defocus (nm)	2750	Depositor
Magnification	105000	Depositor
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	1.228	Depositor
Minimum map value	-0.375	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	0.035	Depositor
Recommended contour level	0.13	Depositor
Map size (Å)	452.4, 452.4, 452.4	wwPDB
Map dimensions	520, 520, 520	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.87, 0.87, 0.87	Depositor

## 5 Model quality [i](#)

### 5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section:  
NAD

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with  $|Z| > 5$  is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
1	A	0.23	0/2597	0.49	0/3514
1	B	0.23	0/2582	0.49	0/3494
1	C	0.23	0/2586	0.49	0/3499
1	D	0.23	0/2597	0.49	0/3514
1	E	0.23	0/2597	0.49	0/3514
1	F	0.23	0/2597	0.49	0/3514
1	G	0.23	0/2597	0.49	0/3514
1	H	0.23	0/2597	0.49	0/3514
1	I	0.23	0/2597	0.49	0/3514
1	J	0.23	0/2597	0.49	0/3514
1	K	0.23	0/2597	0.49	0/3514
1	L	0.23	0/2597	0.49	0/3514
1	M	0.23	0/2597	0.49	0/3514
1	N	0.23	0/2597	0.49	0/3514
1	O	0.23	0/2597	0.49	0/3514
1	P	0.23	0/2597	0.49	0/3514
1	Q	0.23	0/2597	0.49	0/3514
1	R	0.23	0/2597	0.49	0/3514
1	S	0.23	0/2597	0.49	0/3514
1	T	0.23	0/2597	0.49	0/3514
1	U	0.23	0/2597	0.49	0/3514
1	V	0.23	0/2586	0.49	0/3499
1	W	0.23	0/2586	0.49	0/3499
1	X	0.23	0/2597	0.49	0/3514
2	a	0.24	0/137	0.64	1/186 (0.5%)
2	b	0.24	0/137	0.64	1/186 (0.5%)
2	c	0.24	0/137	0.64	1/186 (0.5%)
2	d	0.24	0/137	0.64	1/186 (0.5%)
2	e	0.24	0/137	0.64	1/186 (0.5%)
2	f	0.24	0/137	0.64	1/186 (0.5%)
2	g	0.24	0/137	0.64	1/186 (0.5%)
2	h	0.24	0/137	0.64	1/186 (0.5%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
2	i	0.24	0/137	0.64	1/186 (0.5%)
2	j	0.24	0/137	0.64	1/186 (0.5%)
All	All	0.23	0/63650	0.49	10/86131 (0.0%)

There are no bond length outliers.

The worst 5 of 10 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	b	325	PRO	N-CA-CB	6.25	110.80	103.30
2	e	325	PRO	N-CA-CB	6.24	110.79	103.30
2	d	325	PRO	N-CA-CB	6.24	110.78	103.30
2	g	325	PRO	N-CA-CB	6.24	110.78	103.30
2	c	325	PRO	N-CA-CB	6.23	110.78	103.30

There are no chirality outliers.

There are no planarity outliers.

## 5.2 Too-close contacts [i](#)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	2557	0	2569	11	0
1	B	2542	0	2545	11	0
1	C	2546	0	2557	11	0
1	D	2557	0	2569	10	0
1	E	2557	0	2569	11	0
1	F	2557	0	2569	11	0
1	G	2557	0	2569	11	0
1	H	2557	0	2569	10	0
1	I	2557	0	2569	11	0
1	J	2557	0	2569	11	0
1	K	2557	0	2569	11	0
1	L	2557	0	2569	12	0
1	M	2557	0	2569	11	0
1	N	2557	0	2569	10	0
1	O	2557	0	2569	10	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	P	2557	0	2569	12	0
1	Q	2557	0	2569	10	0
1	R	2557	0	2569	11	0
1	S	2557	0	2569	11	0
1	T	2557	0	2569	11	0
1	U	2557	0	2569	12	0
1	V	2546	0	2557	12	0
1	W	2546	0	2557	11	0
1	X	2557	0	2569	12	0
2	a	138	0	116	0	0
2	b	138	0	116	0	0
2	c	138	0	116	0	0
2	d	138	0	116	0	0
2	e	138	0	116	0	0
2	f	138	0	116	0	0
2	g	138	0	116	0	0
2	h	138	0	116	0	0
2	i	138	0	116	0	0
2	j	138	0	116	0	0
3	A	44	0	26	0	0
3	B	44	0	26	0	0
3	C	44	0	26	0	0
3	D	44	0	26	0	0
3	E	44	0	26	0	0
3	F	44	0	26	0	0
3	G	44	0	26	0	0
3	H	44	0	26	0	0
3	I	44	0	26	0	0
3	J	44	0	26	0	0
3	K	44	0	26	0	0
3	L	44	0	26	0	0
3	M	44	0	26	0	0
3	N	44	0	26	0	0
3	O	44	0	26	0	0
3	P	44	0	26	0	0
3	Q	44	0	26	0	0
3	R	44	0	26	0	0
3	S	44	0	26	0	0
3	T	44	0	26	0	0
3	U	44	0	26	0	0
3	V	44	0	26	0	0
3	W	44	0	26	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	X	44	0	26	0	0
All	All	63756	0	63380	264	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 2.

The worst 5 of 264 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:342:ARG:HG3	1:G:345:ASP:HB2	1.88	0.56
1:E:342:ARG:HG3	1:E:345:ASP:HB2	1.88	0.56
1:R:342:ARG:HG3	1:R:345:ASP:HB2	1.88	0.56
1:S:342:ARG:HG3	1:S:345:ASP:HB2	1.88	0.56
1:T:342:ARG:HG3	1:T:345:ASP:HB2	1.88	0.56

There are no symmetry-related clashes.

## 5.3 Torsion angles [i](#)

### 5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	329/457 (72%)	317 (96%)	12 (4%)	0	100	100
1	B	328/457 (72%)	316 (96%)	12 (4%)	0	100	100
1	C	328/457 (72%)	316 (96%)	12 (4%)	0	100	100
1	D	329/457 (72%)	316 (96%)	13 (4%)	0	100	100
1	E	329/457 (72%)	317 (96%)	12 (4%)	0	100	100
1	F	329/457 (72%)	316 (96%)	13 (4%)	0	100	100
1	G	329/457 (72%)	317 (96%)	12 (4%)	0	100	100
1	H	329/457 (72%)	316 (96%)	13 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	I	329/457 (72%)	317 (96%)	12 (4%)	0	100	100
1	J	329/457 (72%)	316 (96%)	13 (4%)	0	100	100
1	K	329/457 (72%)	317 (96%)	12 (4%)	0	100	100
1	L	329/457 (72%)	317 (96%)	12 (4%)	0	100	100
1	M	329/457 (72%)	317 (96%)	12 (4%)	0	100	100
1	N	329/457 (72%)	316 (96%)	13 (4%)	0	100	100
1	O	329/457 (72%)	317 (96%)	12 (4%)	0	100	100
1	P	329/457 (72%)	317 (96%)	12 (4%)	0	100	100
1	Q	329/457 (72%)	317 (96%)	12 (4%)	0	100	100
1	R	329/457 (72%)	316 (96%)	13 (4%)	0	100	100
1	S	329/457 (72%)	316 (96%)	13 (4%)	0	100	100
1	T	329/457 (72%)	316 (96%)	13 (4%)	0	100	100
1	U	329/457 (72%)	317 (96%)	12 (4%)	0	100	100
1	V	328/457 (72%)	315 (96%)	13 (4%)	0	100	100
1	W	328/457 (72%)	315 (96%)	13 (4%)	0	100	100
1	X	329/457 (72%)	317 (96%)	12 (4%)	0	100	100
2	a	20/129 (16%)	15 (75%)	4 (20%)	1 (5%)	2	12
2	b	20/129 (16%)	15 (75%)	4 (20%)	1 (5%)	2	12
2	c	20/129 (16%)	15 (75%)	4 (20%)	1 (5%)	2	12
2	d	20/129 (16%)	15 (75%)	4 (20%)	1 (5%)	2	12
2	e	20/129 (16%)	15 (75%)	4 (20%)	1 (5%)	2	12
2	f	20/129 (16%)	15 (75%)	4 (20%)	1 (5%)	2	12
2	g	20/129 (16%)	15 (75%)	4 (20%)	1 (5%)	2	12
2	h	20/129 (16%)	15 (75%)	4 (20%)	1 (5%)	2	12
2	i	20/129 (16%)	15 (75%)	4 (20%)	1 (5%)	2	12
2	j	20/129 (16%)	15 (75%)	4 (20%)	1 (5%)	2	12
All	All	8092/12258 (66%)	7744 (96%)	338 (4%)	10 (0%)	54	85

5 of 10 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	a	325	PRO
2	b	325	PRO

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Mol	Chain	Res	Type
2	c	325	PRO
2	d	325	PRO
2	e	325	PRO

### 5.3.2 Protein sidechains [i](#)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	271/369 (73%)	270 (100%)	1 (0%)	91	97
1	B	268/369 (73%)	267 (100%)	1 (0%)	91	97
1	C	270/369 (73%)	269 (100%)	1 (0%)	91	97
1	D	271/369 (73%)	270 (100%)	1 (0%)	91	97
1	E	271/369 (73%)	270 (100%)	1 (0%)	91	97
1	F	271/369 (73%)	270 (100%)	1 (0%)	91	97
1	G	271/369 (73%)	270 (100%)	1 (0%)	91	97
1	H	271/369 (73%)	270 (100%)	1 (0%)	91	97
1	I	271/369 (73%)	270 (100%)	1 (0%)	91	97
1	J	271/369 (73%)	270 (100%)	1 (0%)	91	97
1	K	271/369 (73%)	270 (100%)	1 (0%)	91	97
1	L	271/369 (73%)	270 (100%)	1 (0%)	91	97
1	M	271/369 (73%)	270 (100%)	1 (0%)	91	97
1	N	271/369 (73%)	270 (100%)	1 (0%)	91	97
1	O	271/369 (73%)	270 (100%)	1 (0%)	91	97
1	P	271/369 (73%)	270 (100%)	1 (0%)	91	97
1	Q	271/369 (73%)	270 (100%)	1 (0%)	91	97
1	R	271/369 (73%)	270 (100%)	1 (0%)	91	97
1	S	271/369 (73%)	270 (100%)	1 (0%)	91	97
1	T	271/369 (73%)	270 (100%)	1 (0%)	91	97
1	U	271/369 (73%)	269 (99%)	2 (1%)	84	94

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	V	270/369 (73%)	269 (100%)	1 (0%)	91	97
1	W	270/369 (73%)	269 (100%)	1 (0%)	91	97
1	X	271/369 (73%)	270 (100%)	1 (0%)	91	97
2	a	11/107 (10%)	11 (100%)	0	100	100
2	b	11/107 (10%)	11 (100%)	0	100	100
2	c	11/107 (10%)	11 (100%)	0	100	100
2	d	11/107 (10%)	11 (100%)	0	100	100
2	e	11/107 (10%)	11 (100%)	0	100	100
2	f	11/107 (10%)	11 (100%)	0	100	100
2	g	11/107 (10%)	11 (100%)	0	100	100
2	h	11/107 (10%)	11 (100%)	0	100	100
2	i	11/107 (10%)	11 (100%)	0	100	100
2	j	11/107 (10%)	11 (100%)	0	100	100
All	All	6608/9926 (67%)	6583 (100%)	25 (0%)	91	97

5 of 25 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	O	321	GLU
1	R	321	GLU
1	X	321	GLU
1	Q	321	GLU
1	S	321	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (4) such sidechains are listed below:

Mol	Chain	Res	Type
1	J	57	GLN
1	K	57	GLN
1	N	57	GLN
1	O	57	GLN

### 5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

## 5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

## 5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

## 5.6 Ligand geometry [i](#)

24 ligands are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with  $|Z| > 2$  is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
3	NAD	P	501	-	42,48,48	0.66	1 (2%)	50,73,73	1.06	4 (8%)
3	NAD	J	501	-	42,48,48	0.65	1 (2%)	50,73,73	1.05	4 (8%)
3	NAD	S	501	-	42,48,48	0.65	1 (2%)	50,73,73	1.05	4 (8%)
3	NAD	U	501	-	42,48,48	0.65	1 (2%)	50,73,73	1.06	4 (8%)
3	NAD	H	501	-	42,48,48	0.66	1 (2%)	50,73,73	1.06	4 (8%)
3	NAD	K	501	-	42,48,48	0.66	1 (2%)	50,73,73	1.06	4 (8%)
3	NAD	X	501	-	42,48,48	0.66	1 (2%)	50,73,73	1.06	4 (8%)
3	NAD	V	501	-	42,48,48	0.65	1 (2%)	50,73,73	1.06	4 (8%)
3	NAD	R	501	-	42,48,48	0.65	1 (2%)	50,73,73	1.06	4 (8%)
3	NAD	M	501	-	42,48,48	0.66	1 (2%)	50,73,73	1.06	4 (8%)
3	NAD	N	501	-	42,48,48	0.65	1 (2%)	50,73,73	1.06	4 (8%)
3	NAD	I	501	-	42,48,48	0.65	1 (2%)	50,73,73	1.05	4 (8%)
3	NAD	G	501	-	42,48,48	0.65	1 (2%)	50,73,73	1.05	4 (8%)
3	NAD	T	501	-	42,48,48	0.66	1 (2%)	50,73,73	1.06	4 (8%)
3	NAD	D	501	-	42,48,48	0.66	1 (2%)	50,73,73	1.06	4 (8%)
3	NAD	A	501	-	42,48,48	0.65	1 (2%)	50,73,73	1.05	4 (8%)
3	NAD	Q	501	-	42,48,48	0.65	1 (2%)	50,73,73	1.06	4 (8%)
3	NAD	W	501	-	42,48,48	0.66	1 (2%)	50,73,73	1.05	4 (8%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
3	NAD	C	501	-	42,48,48	0.66	1 (2%)	50,73,73	1.06	4 (8%)
3	NAD	B	501	-	42,48,48	0.66	1 (2%)	50,73,73	1.05	4 (8%)
3	NAD	O	501	-	42,48,48	0.66	1 (2%)	50,73,73	1.06	4 (8%)
3	NAD	E	501	-	42,48,48	0.65	1 (2%)	50,73,73	1.06	4 (8%)
3	NAD	L	501	-	42,48,48	0.65	1 (2%)	50,73,73	1.06	4 (8%)
3	NAD	F	501	-	42,48,48	0.65	1 (2%)	50,73,73	1.06	4 (8%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	NAD	P	501	-	-	4/26/62/62	0/5/5/5
3	NAD	J	501	-	-	4/26/62/62	0/5/5/5
3	NAD	S	501	-	-	4/26/62/62	0/5/5/5
3	NAD	U	501	-	-	4/26/62/62	0/5/5/5
3	NAD	H	501	-	-	4/26/62/62	0/5/5/5
3	NAD	K	501	-	-	4/26/62/62	0/5/5/5
3	NAD	X	501	-	-	4/26/62/62	0/5/5/5
3	NAD	V	501	-	-	4/26/62/62	0/5/5/5
3	NAD	R	501	-	-	4/26/62/62	0/5/5/5
3	NAD	M	501	-	-	4/26/62/62	0/5/5/5
3	NAD	N	501	-	-	4/26/62/62	0/5/5/5
3	NAD	I	501	-	-	4/26/62/62	0/5/5/5
3	NAD	G	501	-	-	4/26/62/62	0/5/5/5
3	NAD	T	501	-	-	4/26/62/62	0/5/5/5
3	NAD	D	501	-	-	4/26/62/62	0/5/5/5
3	NAD	A	501	-	-	4/26/62/62	0/5/5/5
3	NAD	Q	501	-	-	4/26/62/62	0/5/5/5
3	NAD	W	501	-	-	4/26/62/62	0/5/5/5
3	NAD	C	501	-	-	4/26/62/62	0/5/5/5
3	NAD	B	501	-	-	4/26/62/62	0/5/5/5
3	NAD	O	501	-	-	4/26/62/62	0/5/5/5
3	NAD	E	501	-	-	4/26/62/62	0/5/5/5
3	NAD	L	501	-	-	4/26/62/62	0/5/5/5

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	NAD	F	501	-	-	4/26/62/62	0/5/5/5

The worst 5 of 24 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	M	501	NAD	C2N-N1N	2.33	1.37	1.35
3	D	501	NAD	C2N-N1N	2.32	1.37	1.35
3	X	501	NAD	C2N-N1N	2.32	1.37	1.35
3	H	501	NAD	C2N-N1N	2.30	1.37	1.35
3	W	501	NAD	C2N-N1N	2.29	1.37	1.35

The worst 5 of 96 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	N	501	NAD	O4D-C1D-C2D	-4.82	99.89	106.93
3	V	501	NAD	O4D-C1D-C2D	-4.81	99.90	106.93
3	D	501	NAD	O4D-C1D-C2D	-4.81	99.90	106.93
3	U	501	NAD	O4D-C1D-C2D	-4.81	99.90	106.93
3	X	501	NAD	O4D-C1D-C2D	-4.81	99.90	106.93

There are no chirality outliers.

5 of 96 torsion outliers are listed below:

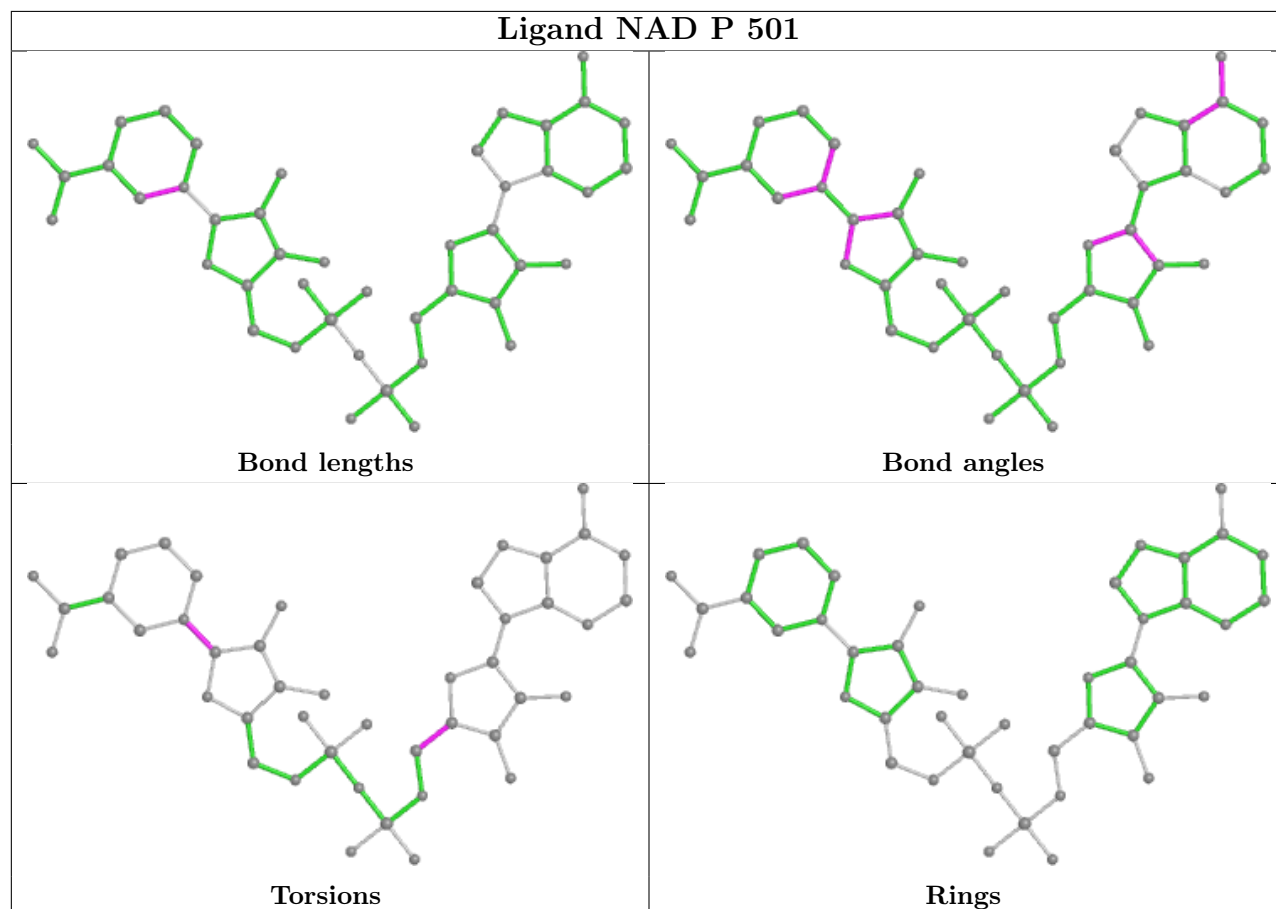
Mol	Chain	Res	Type	Atoms
3	A	501	NAD	O4D-C1D-N1N-C6N
3	A	501	NAD	C2D-C1D-N1N-C2N
3	A	501	NAD	C2D-C1D-N1N-C6N
3	B	501	NAD	O4D-C1D-N1N-C6N
3	B	501	NAD	C2D-C1D-N1N-C2N

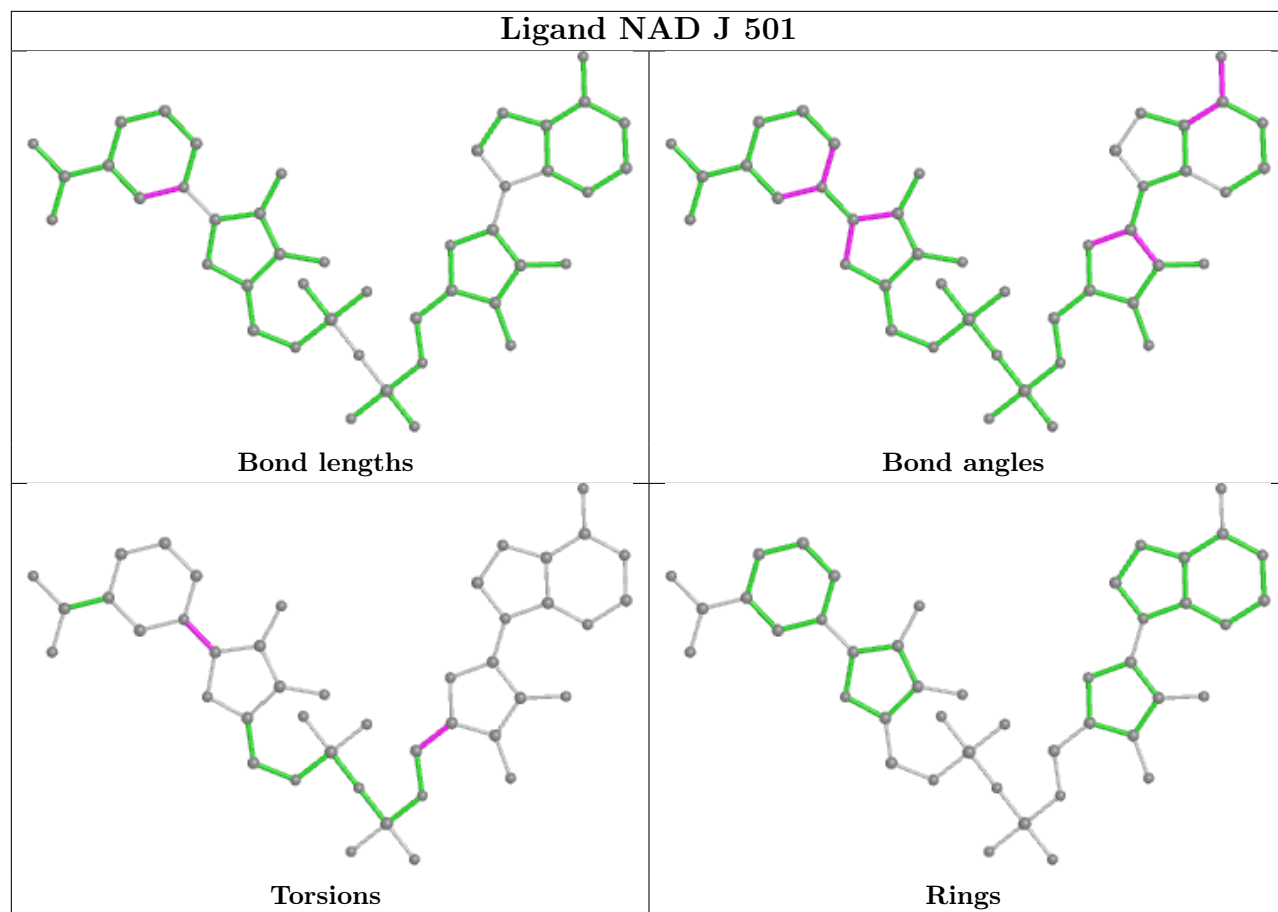
There are no ring outliers.

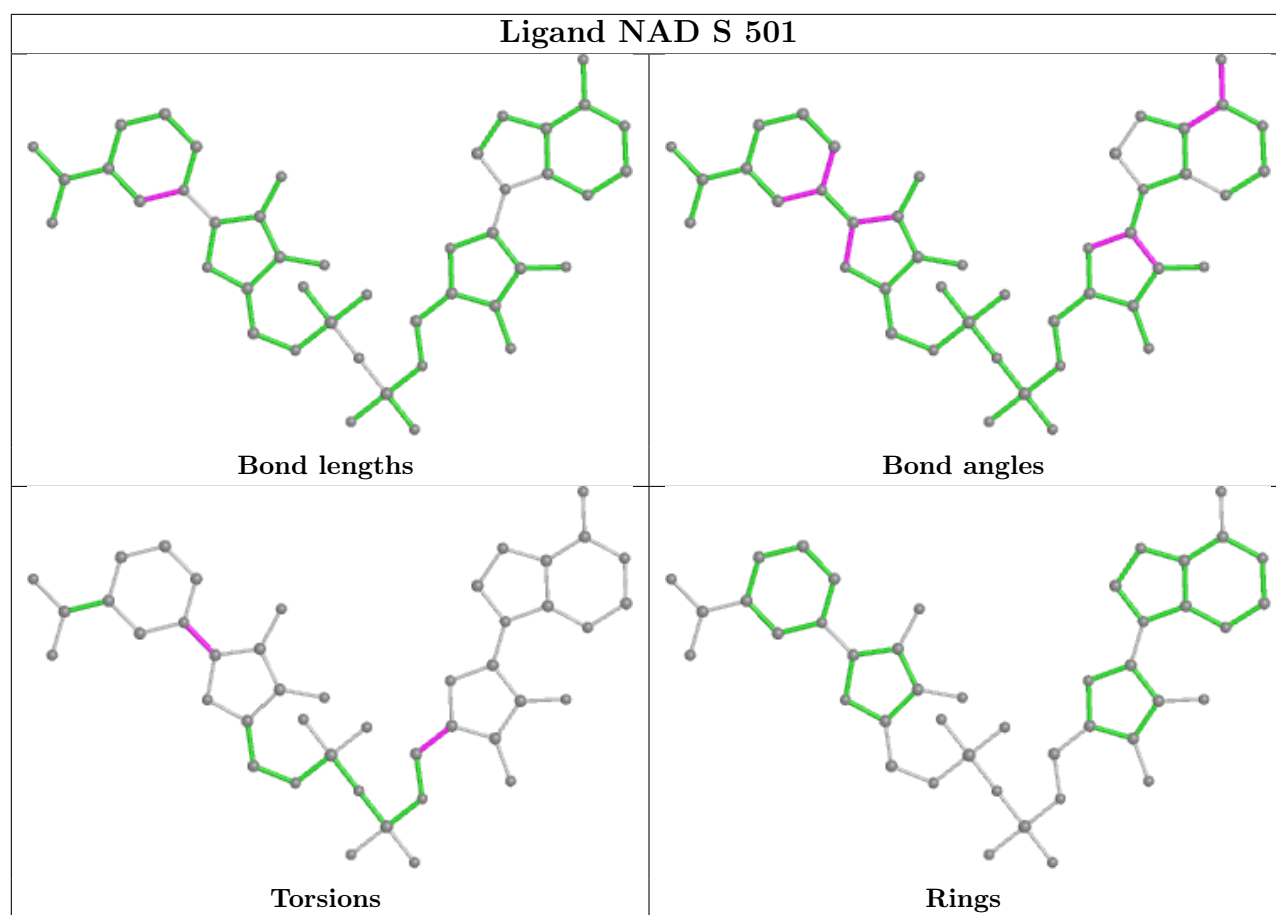
No monomer is involved in short contacts.

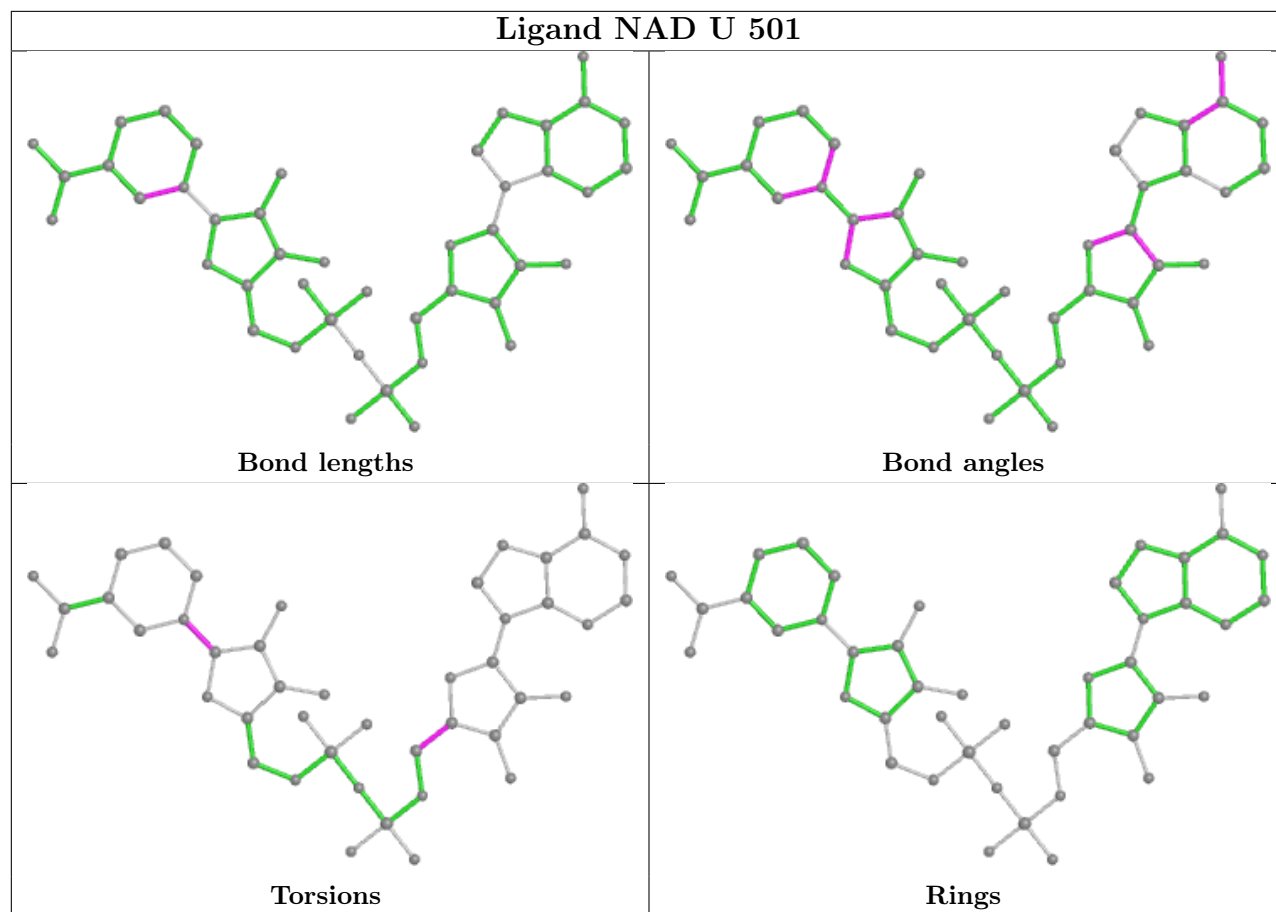
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and

any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

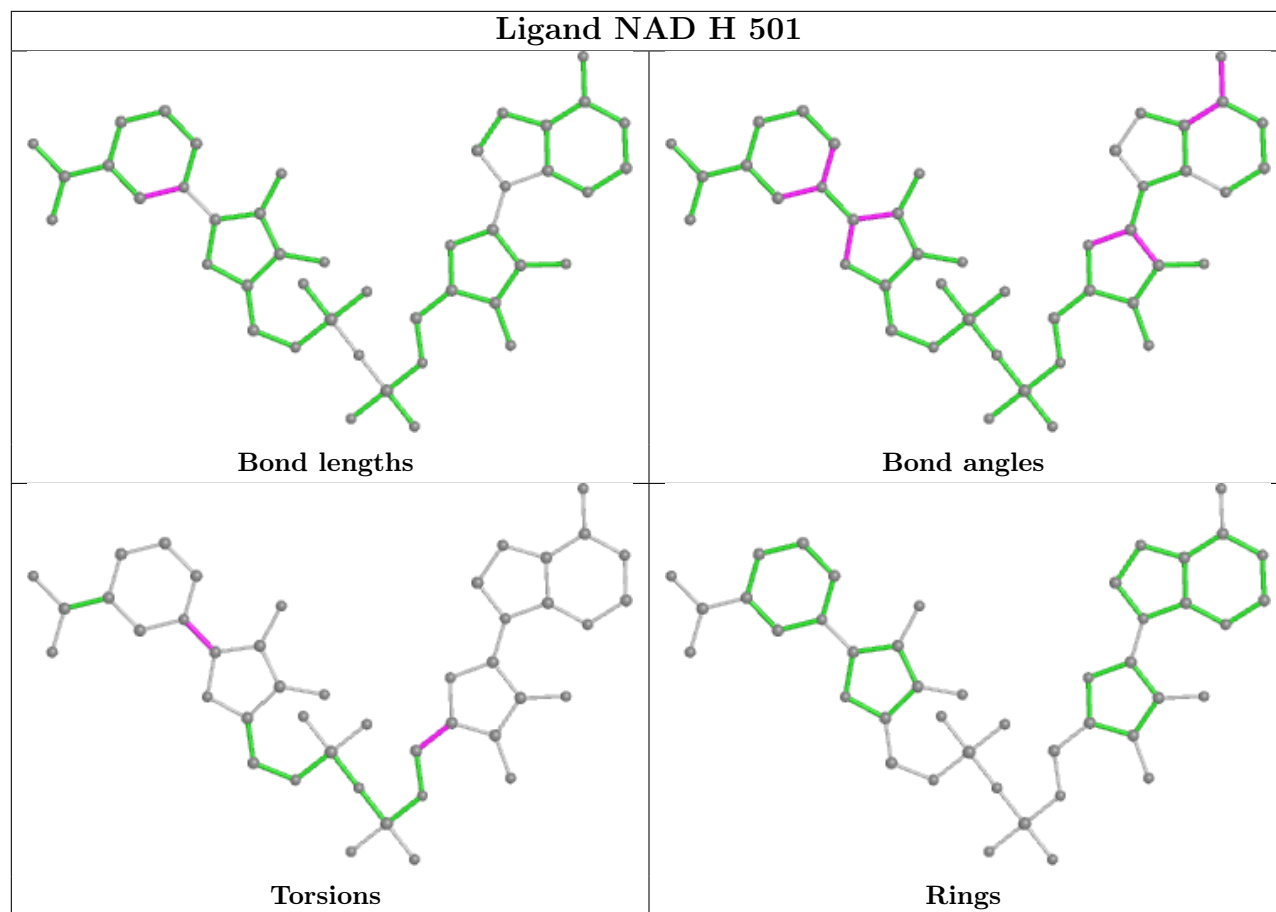


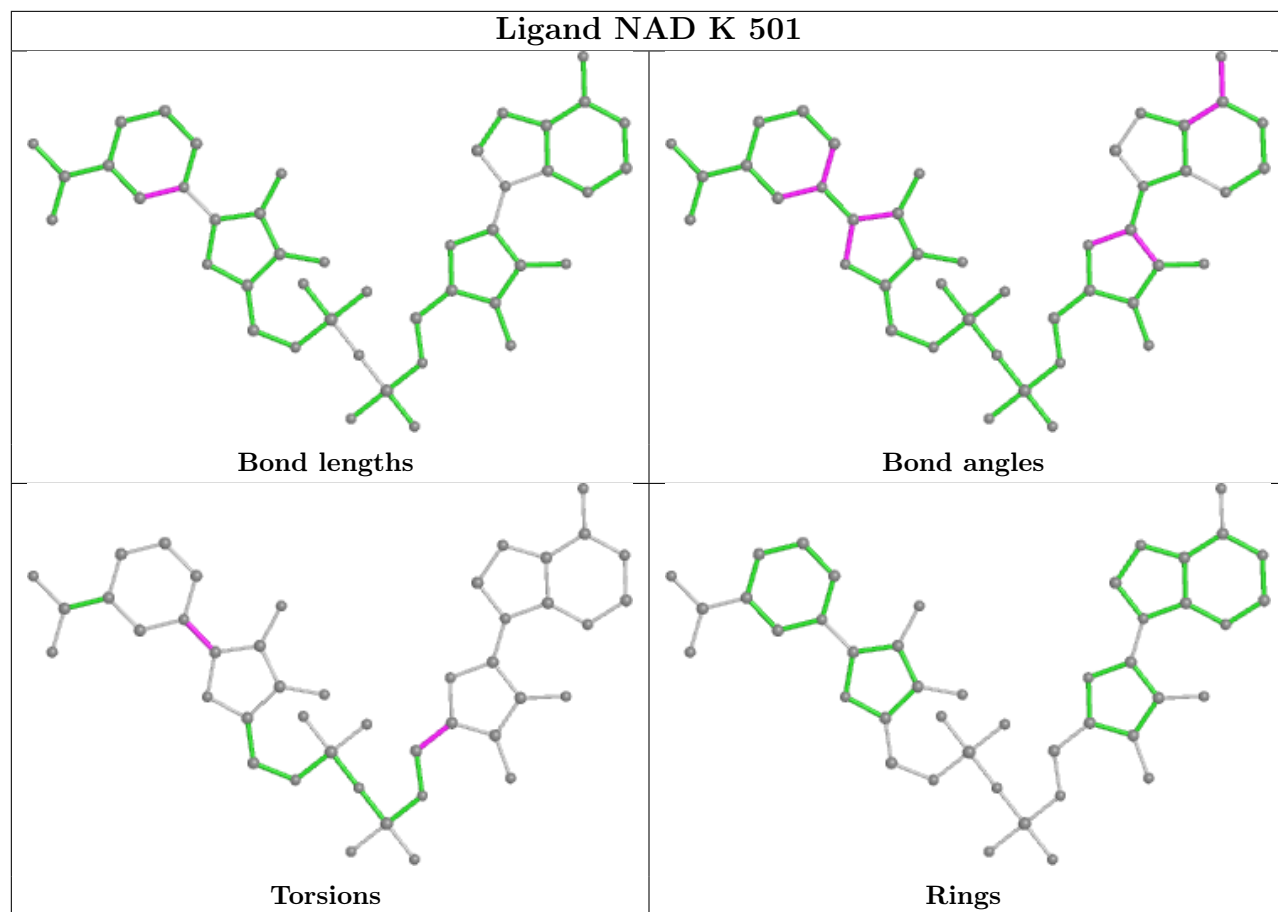


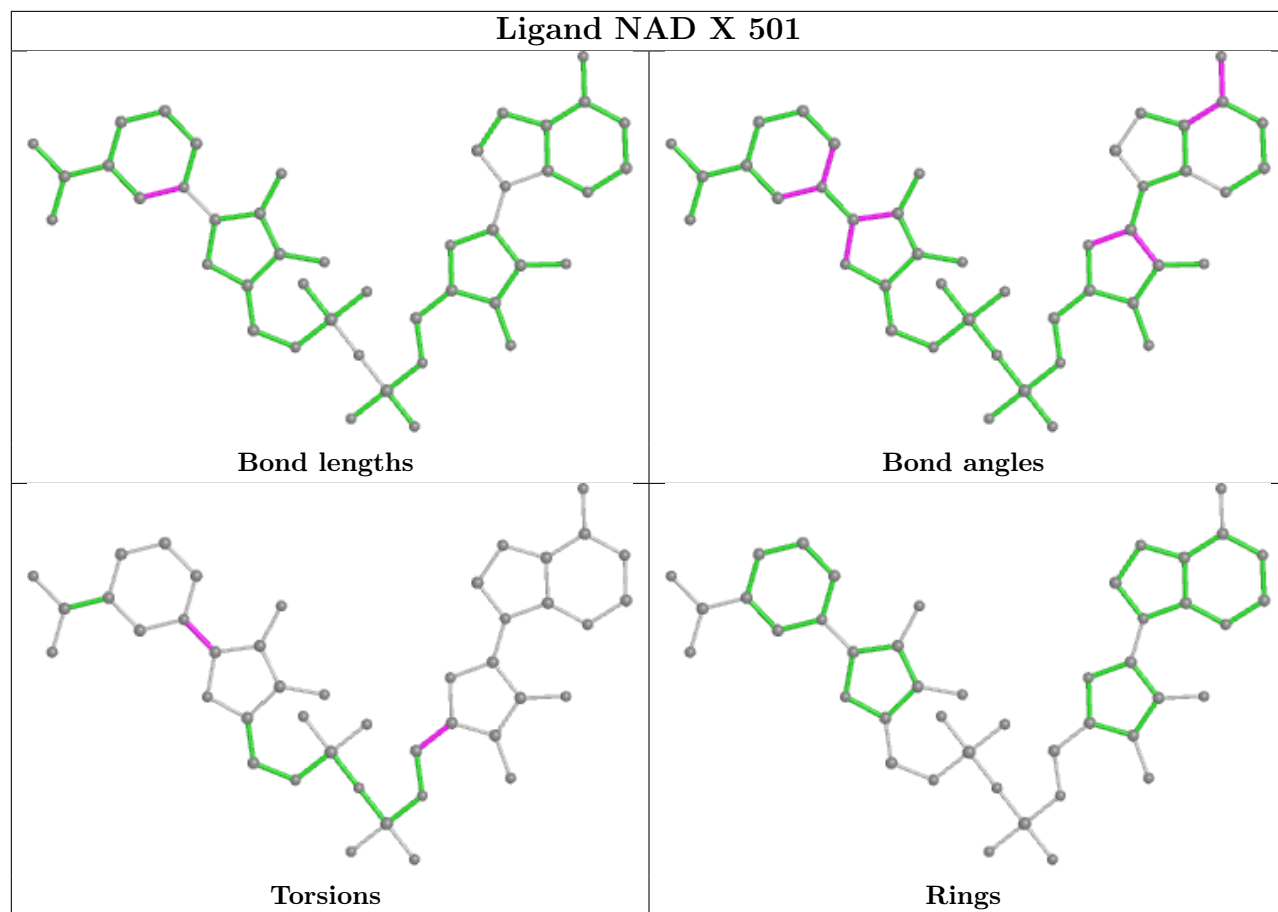


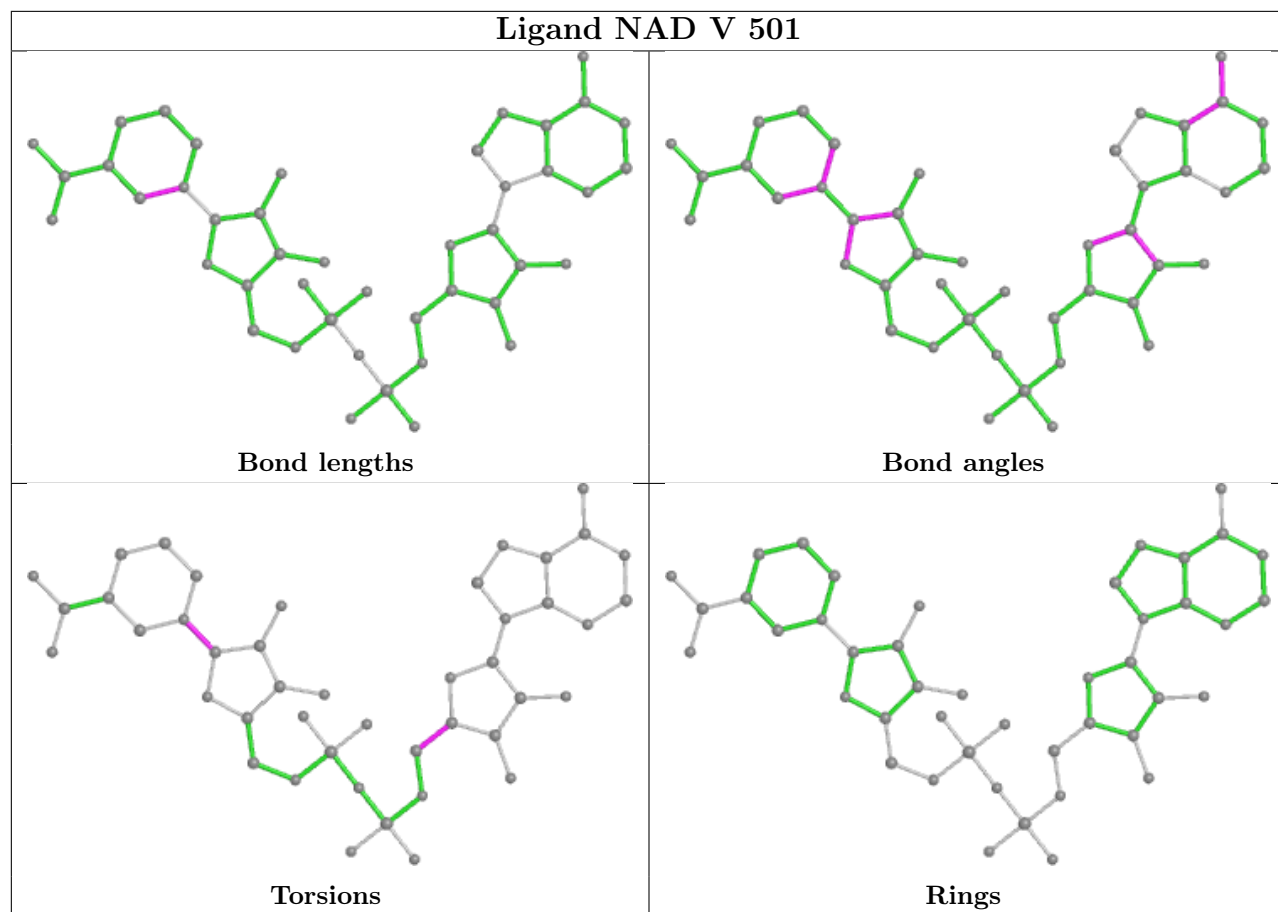


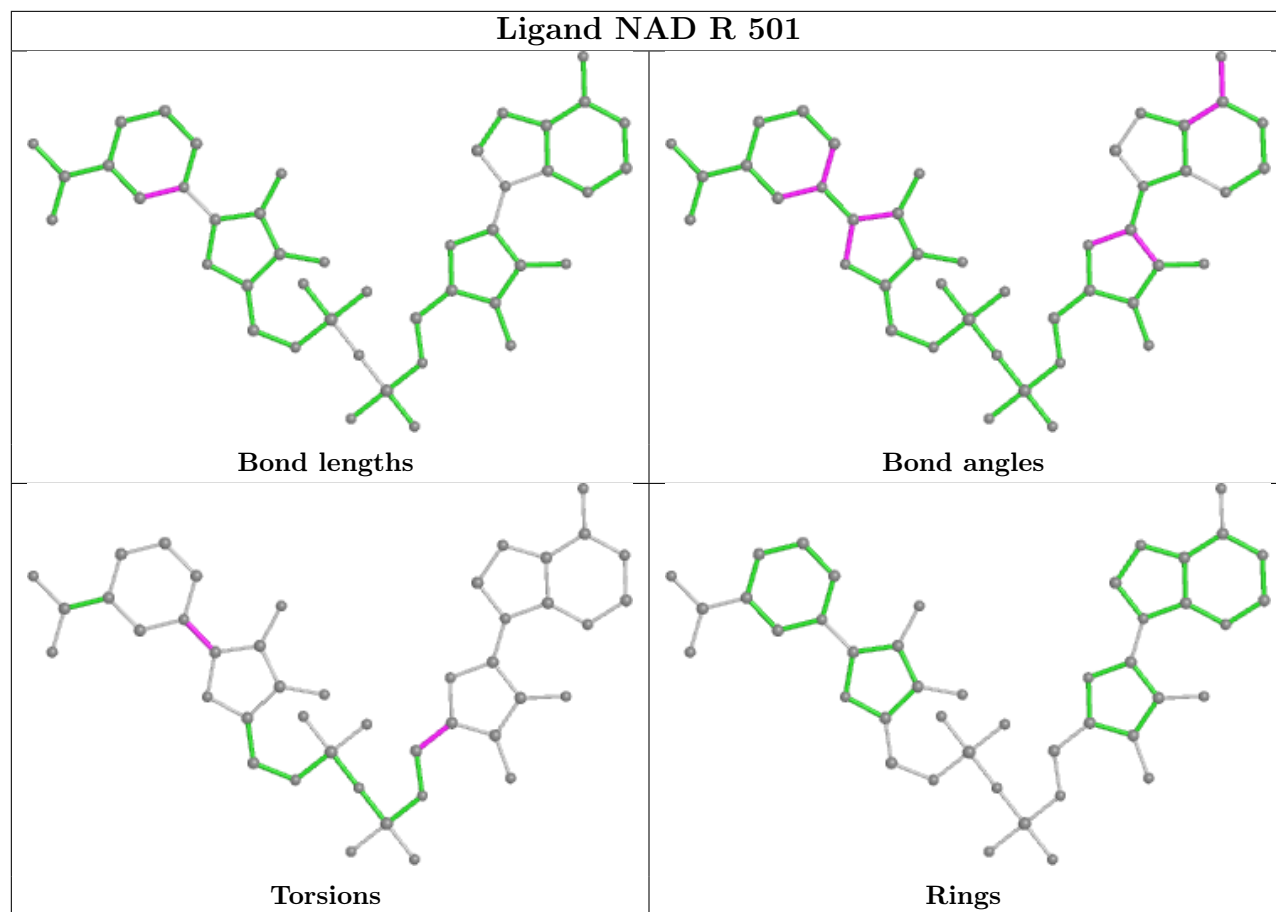


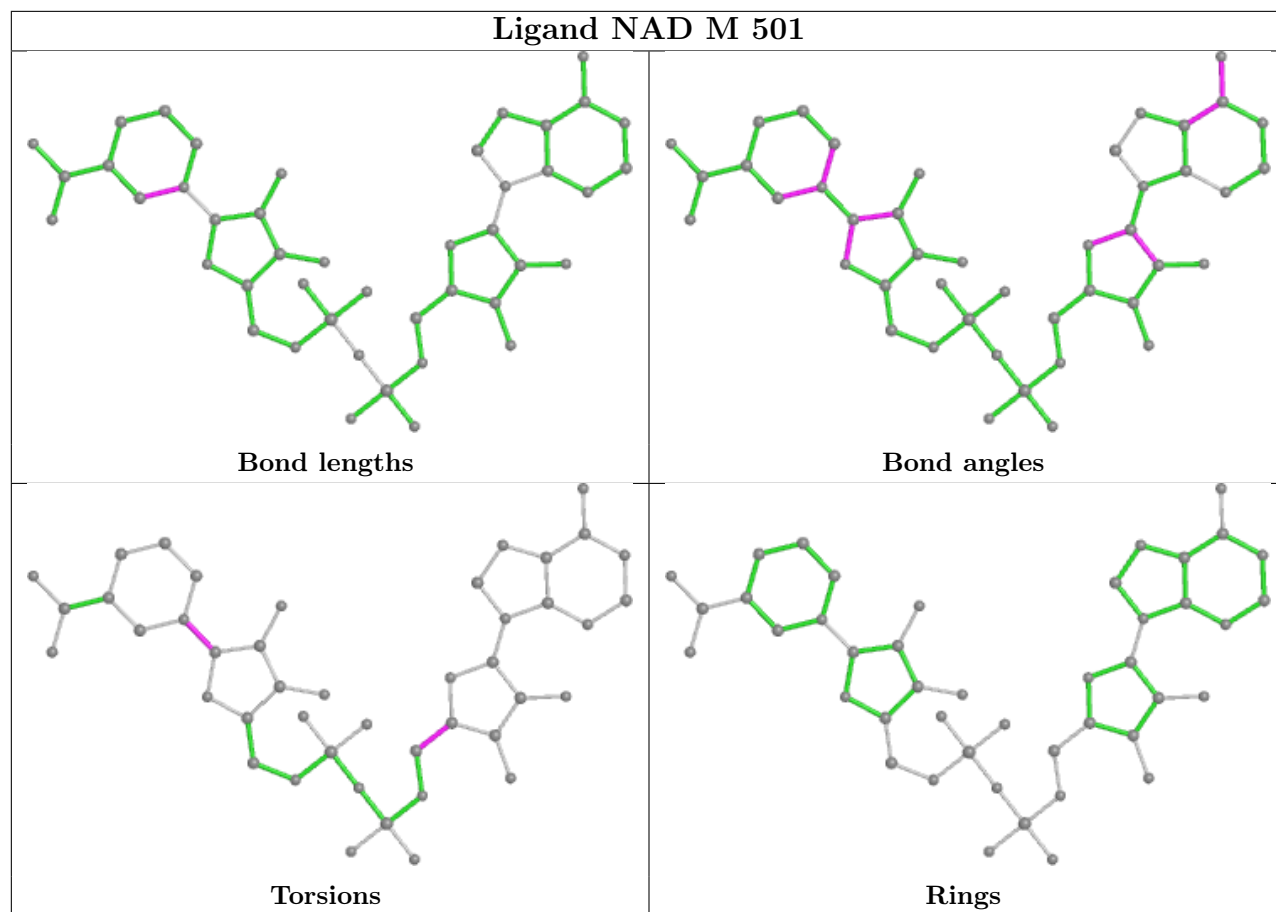


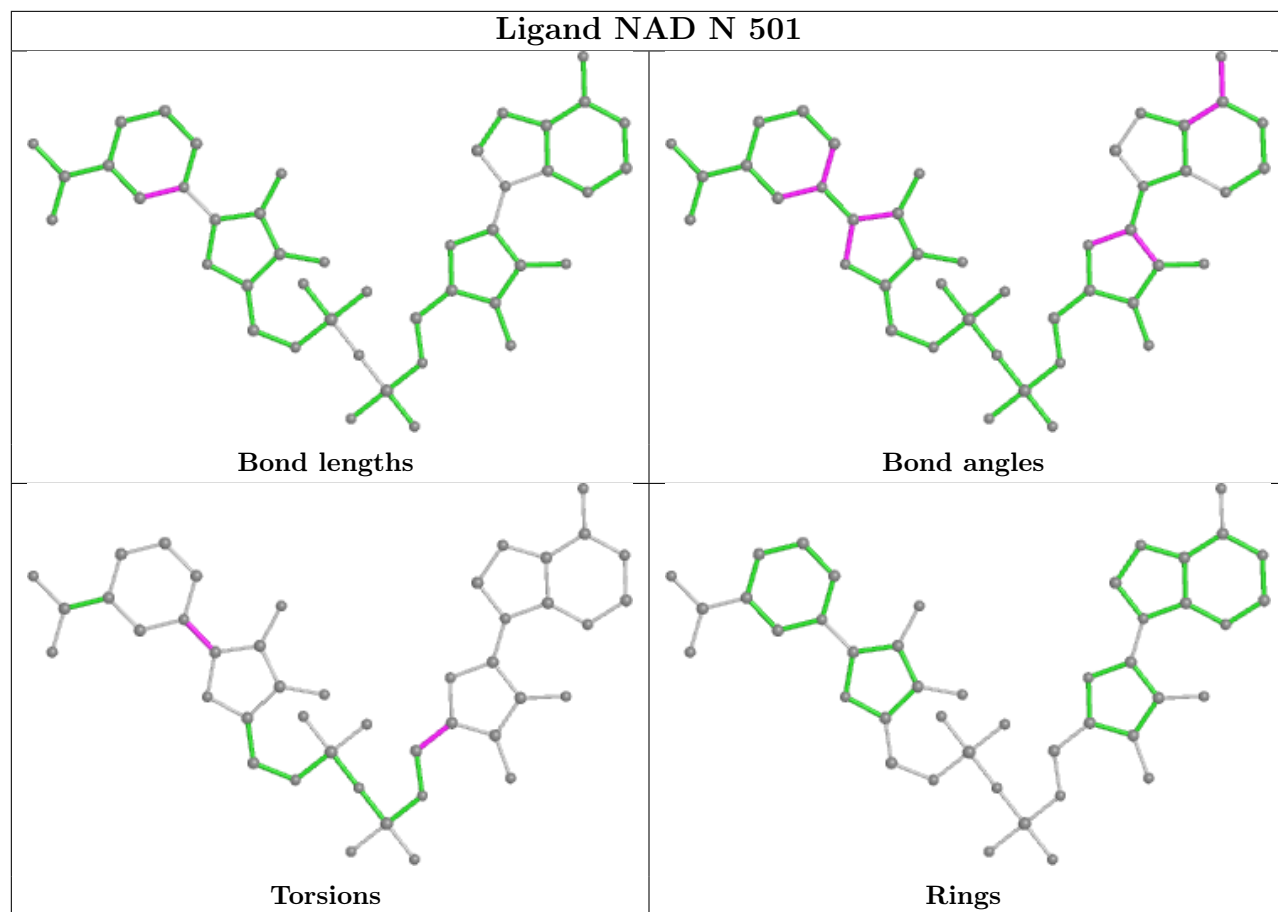


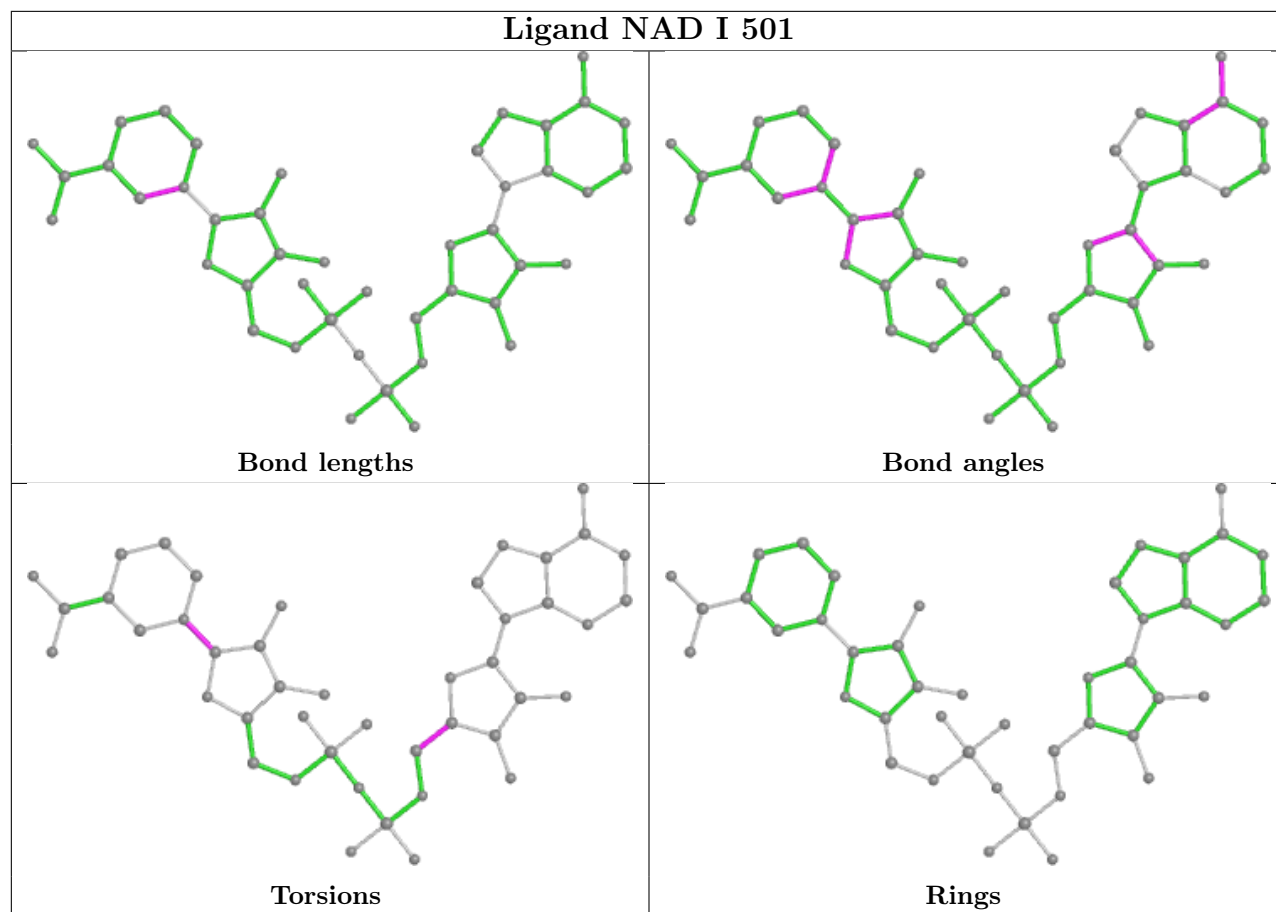




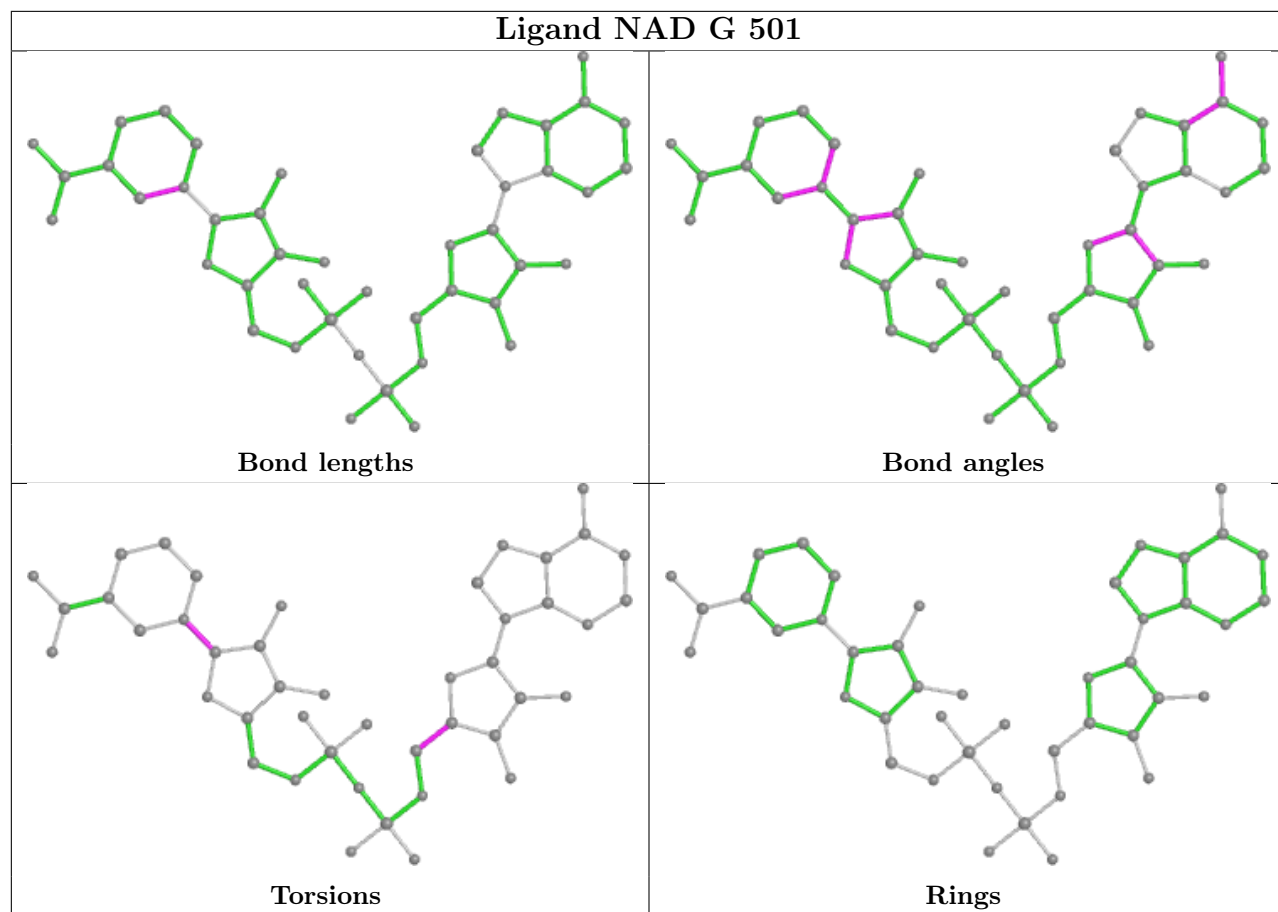


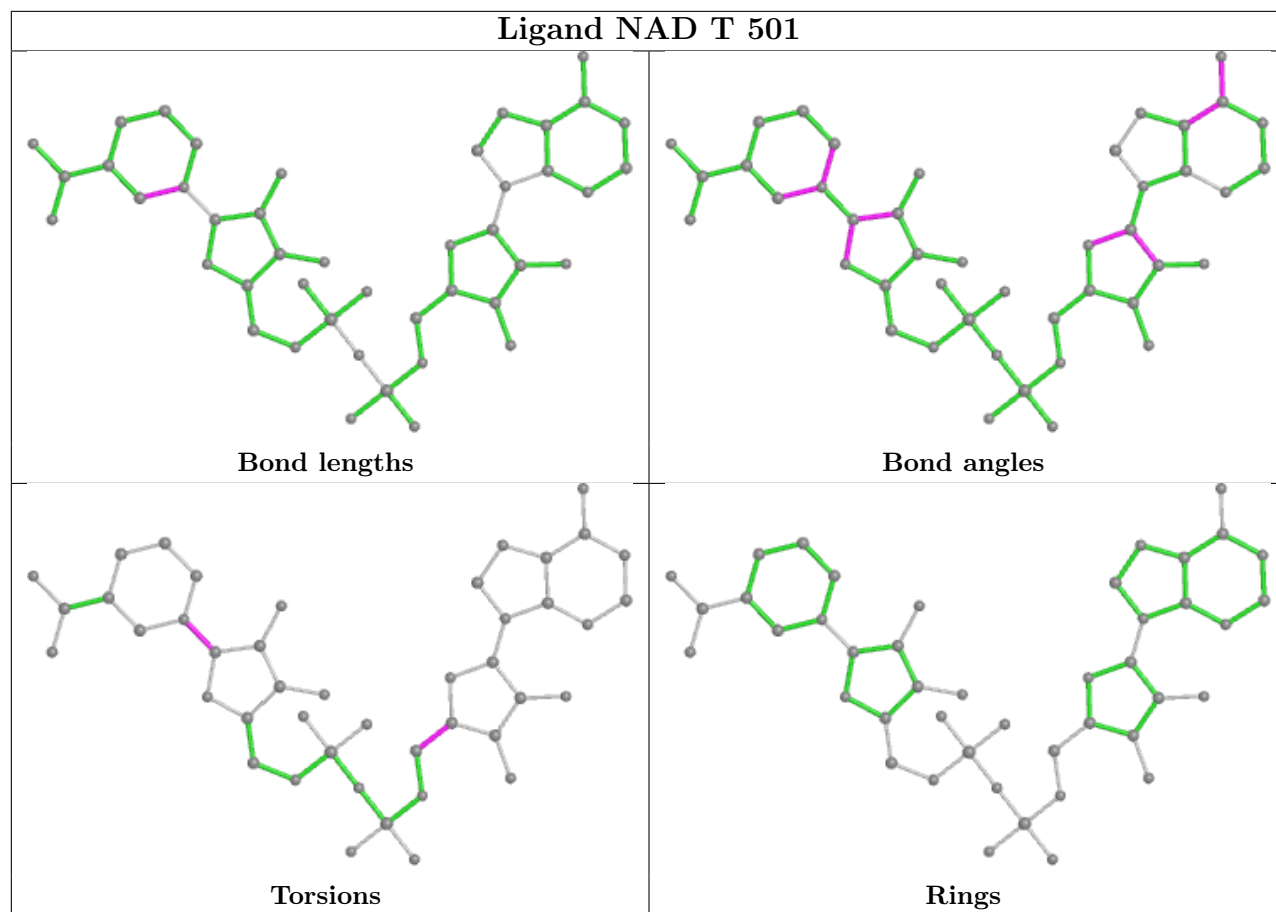


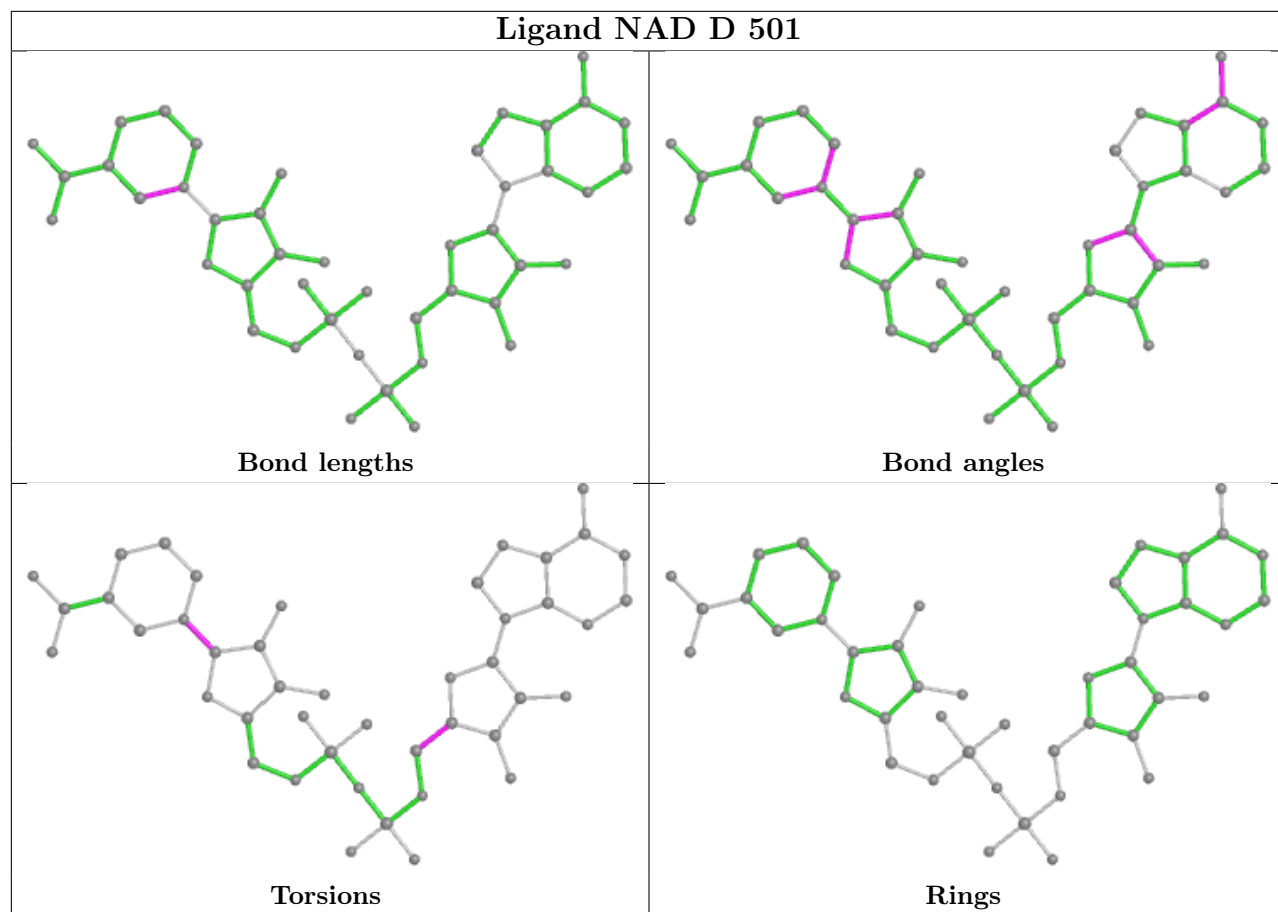


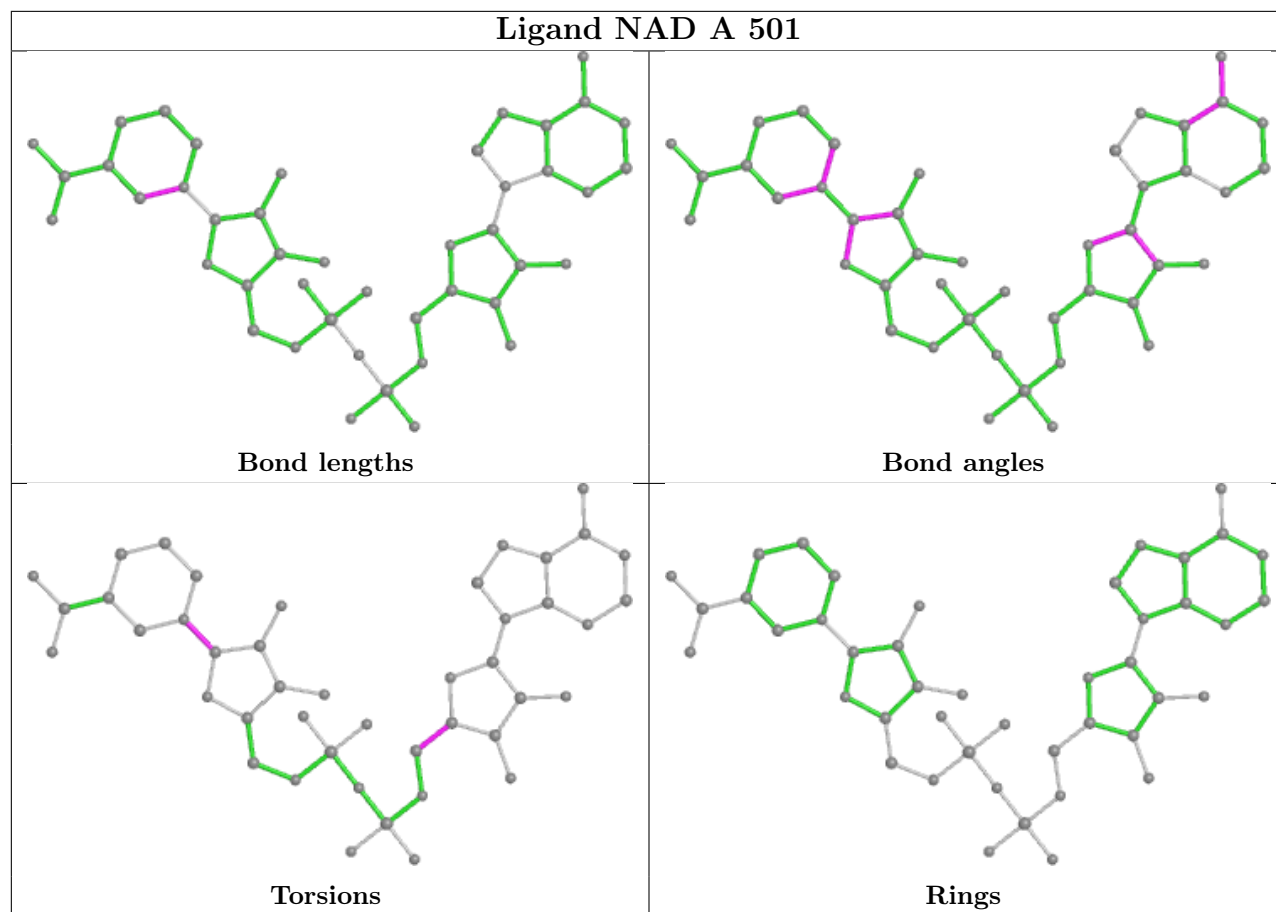


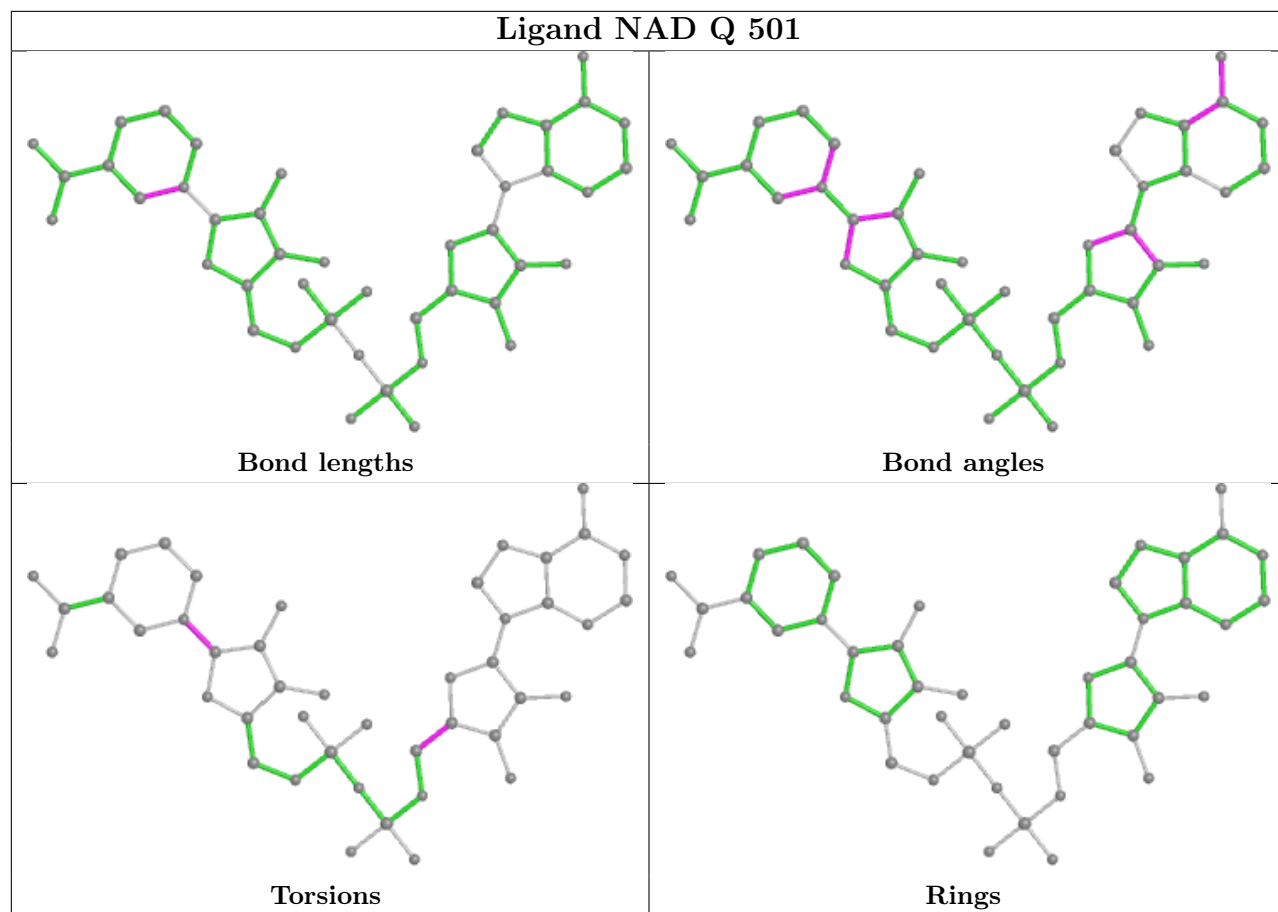


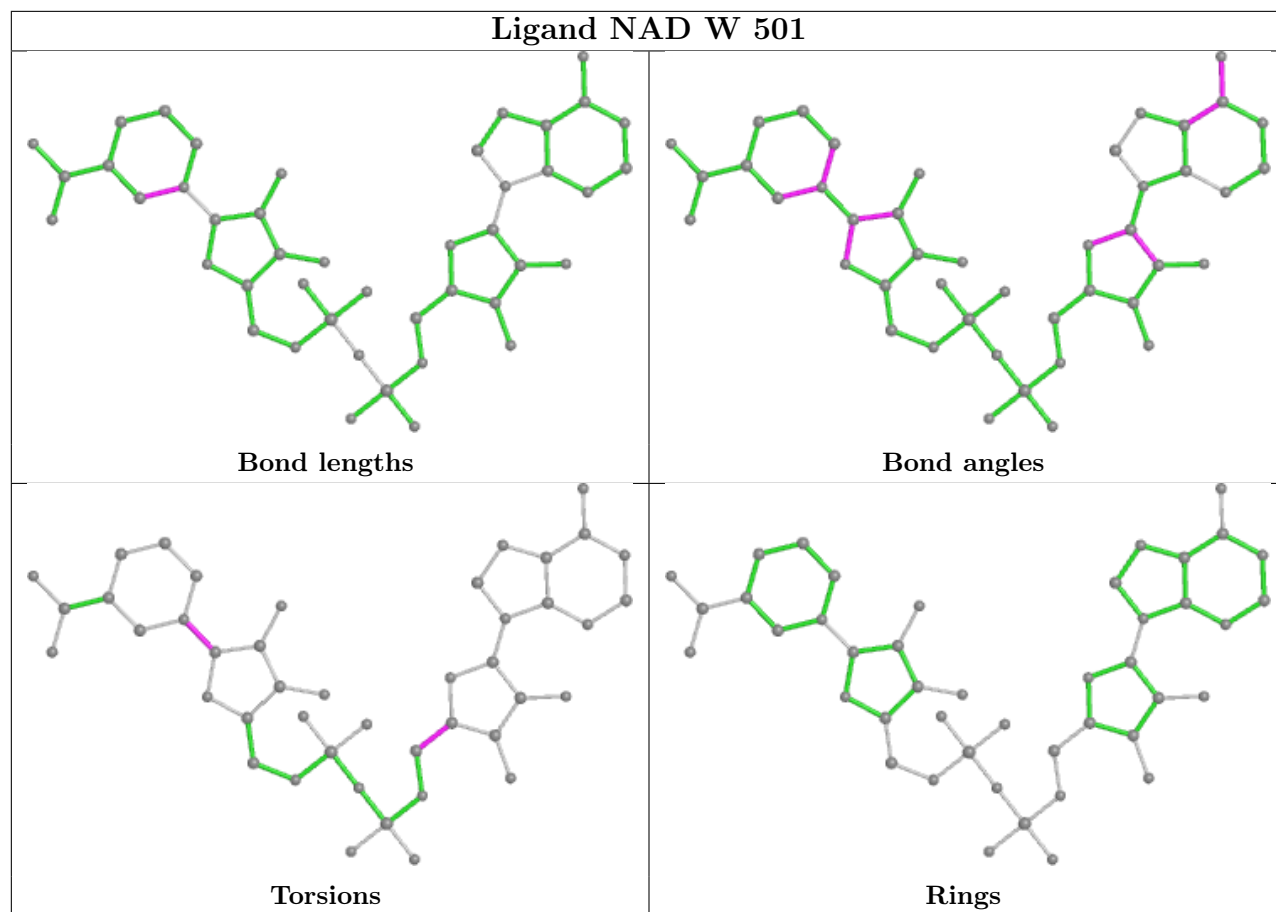


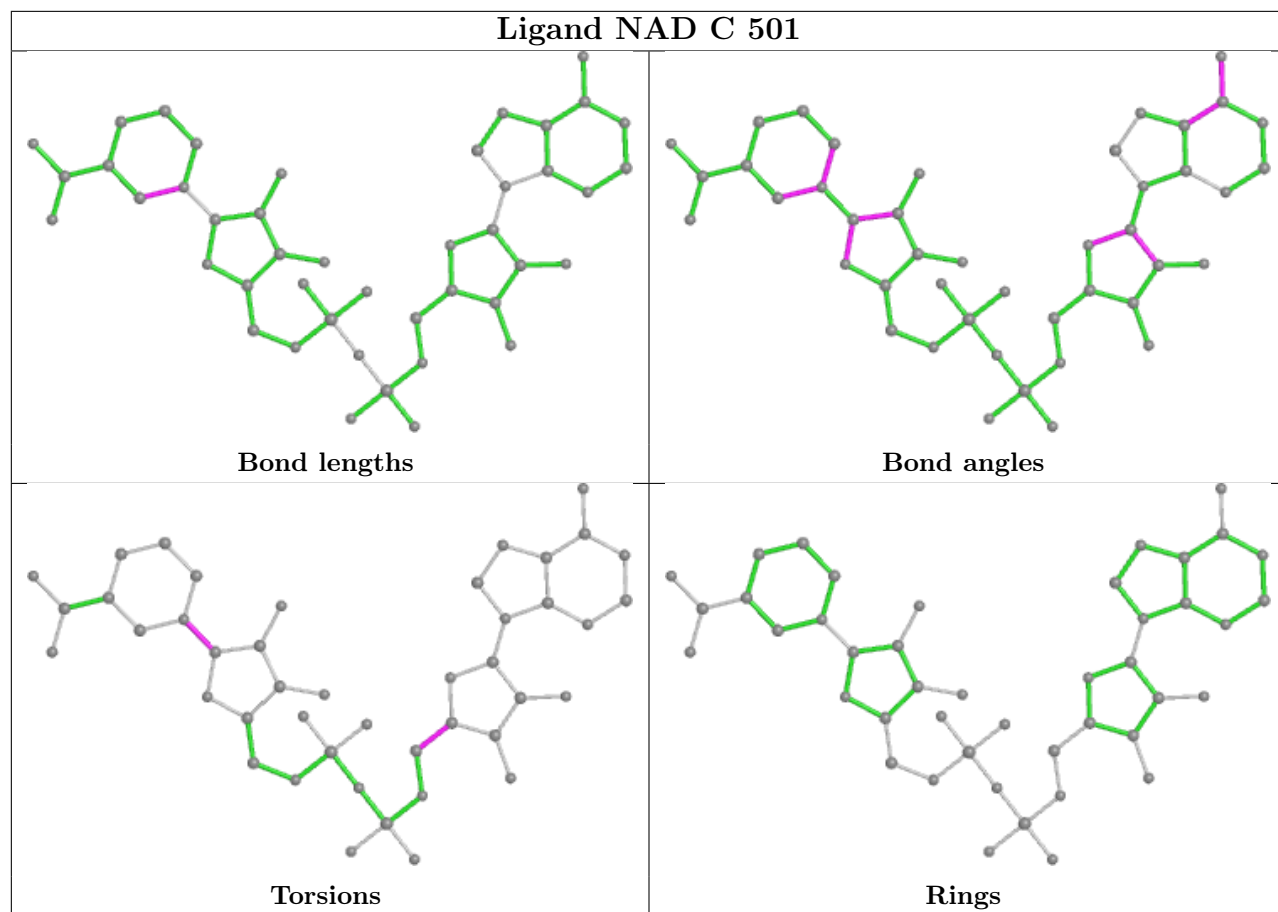


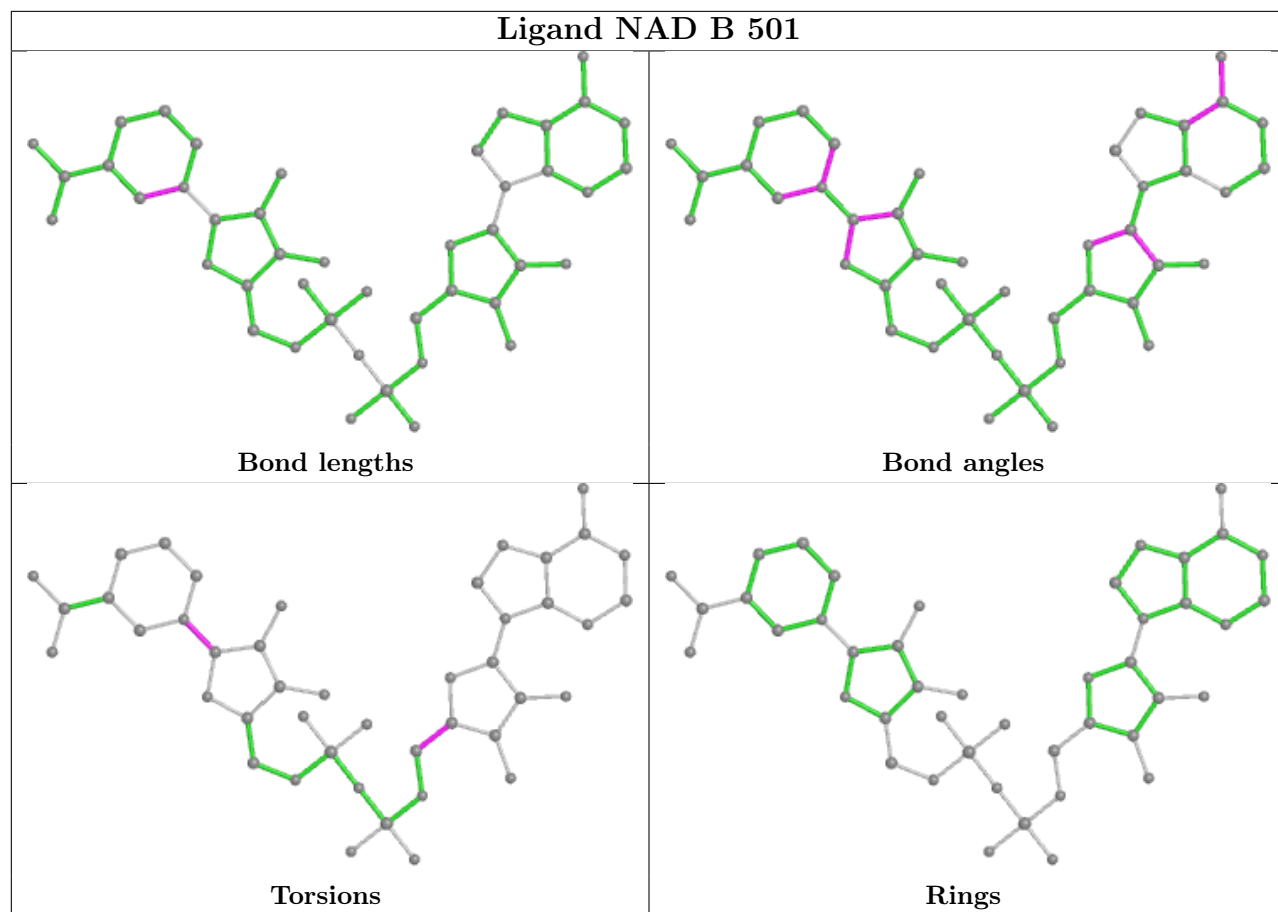




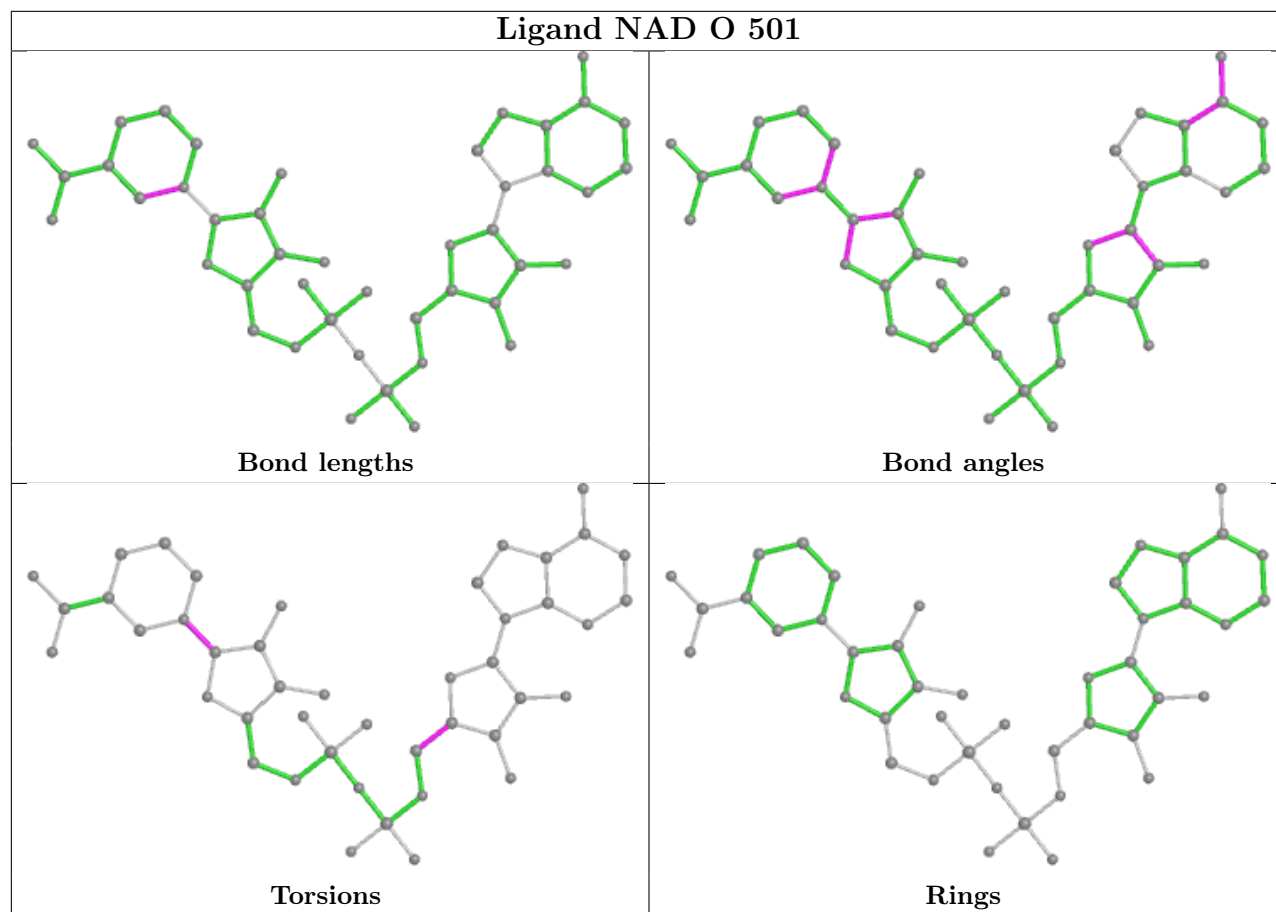


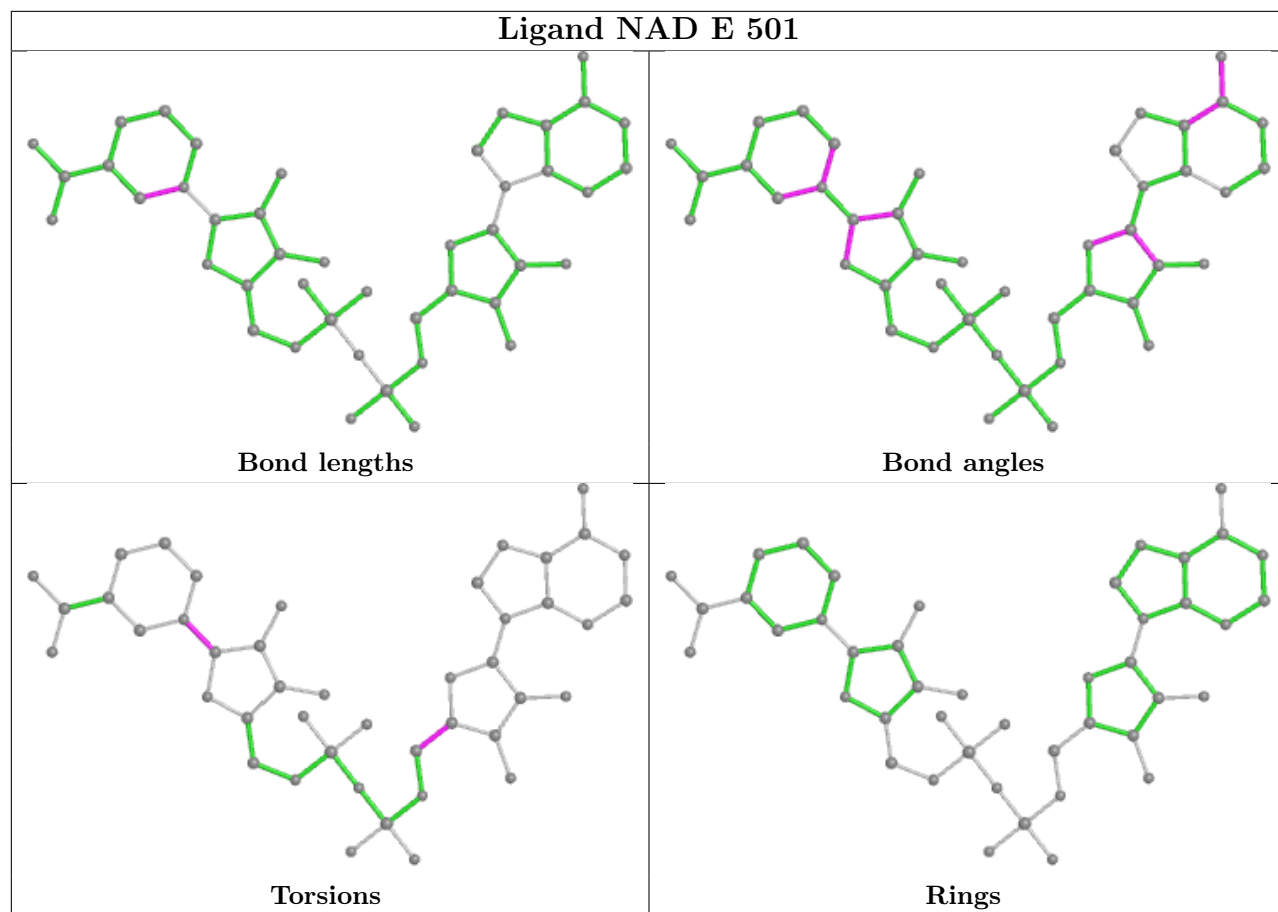


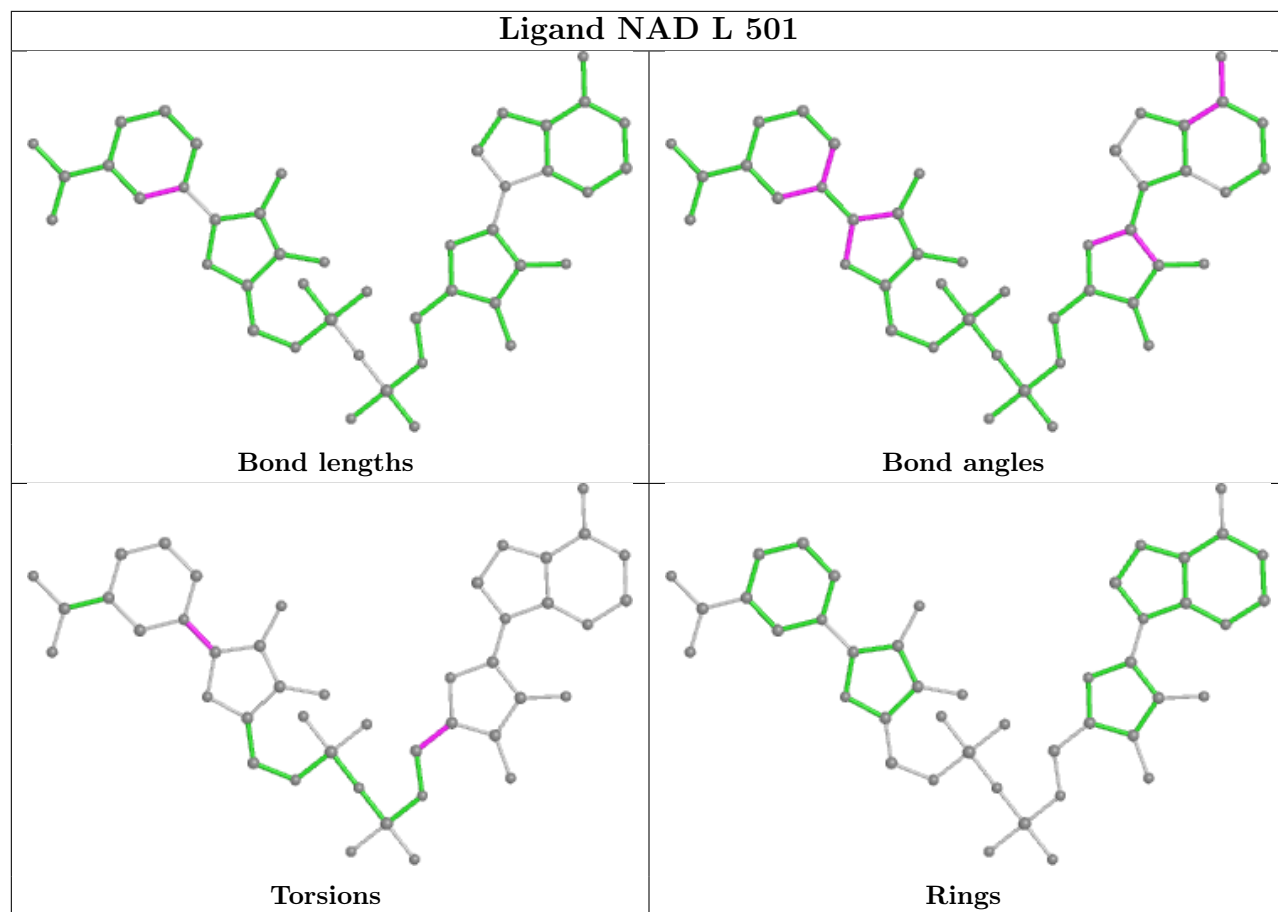


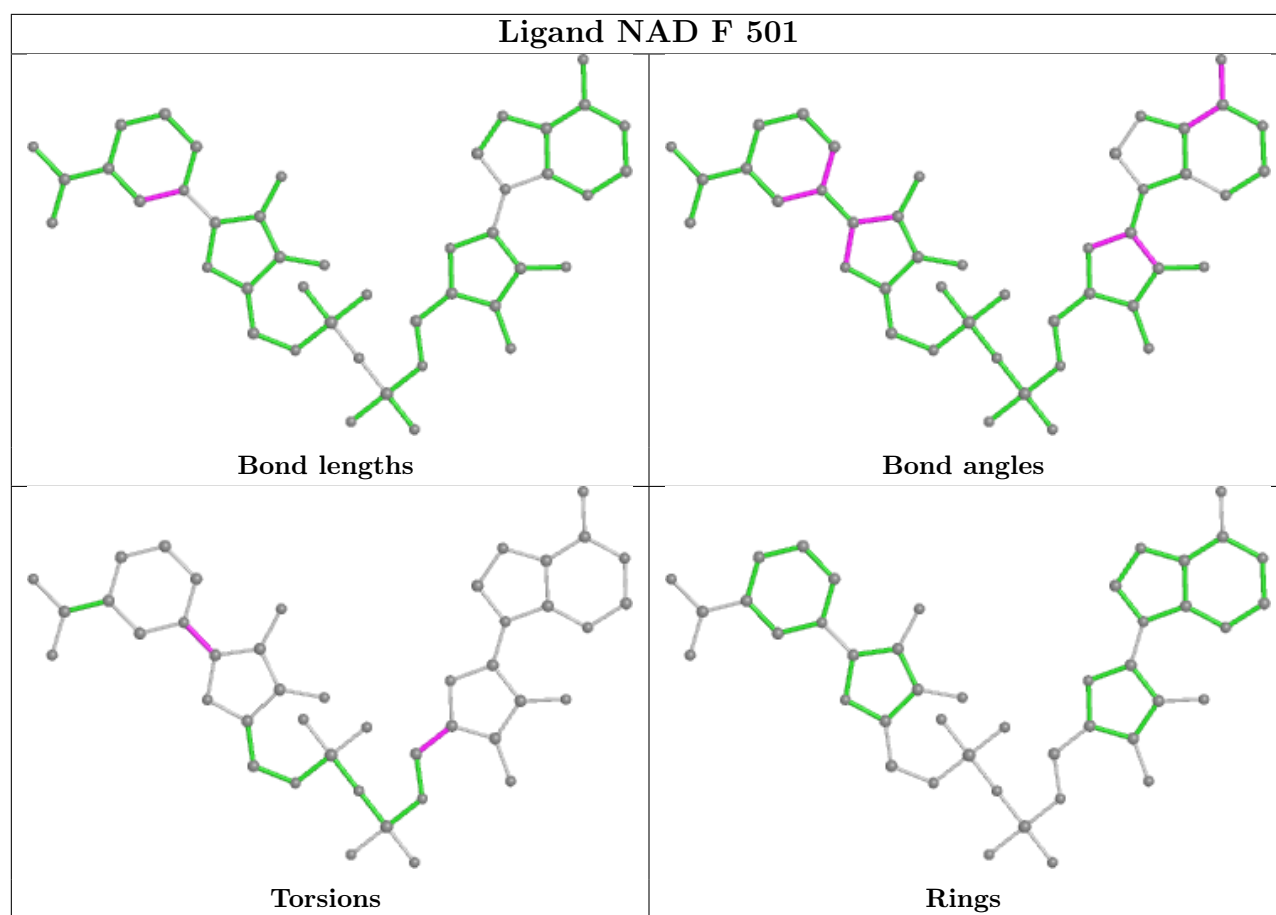












## 5.7 Other polymers [i](#)

There are no such residues in this entry.

## 5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

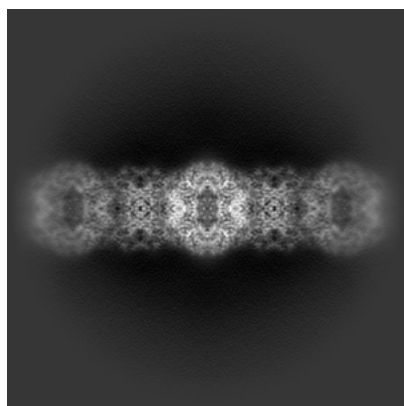
## 6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-15603. These allow visual inspection of the internal detail of the map and identification of artifacts.

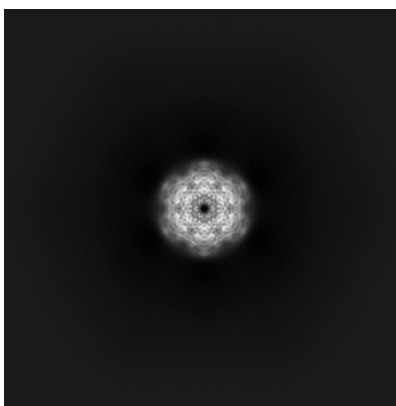
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

### 6.1 Orthogonal projections [i](#)

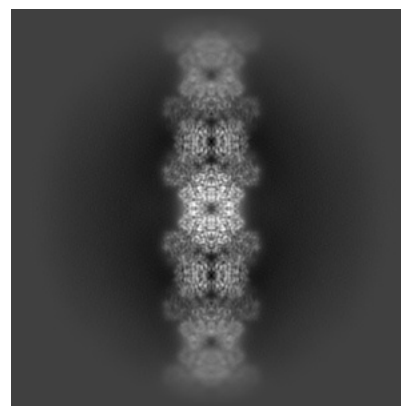
#### 6.1.1 Primary map



X

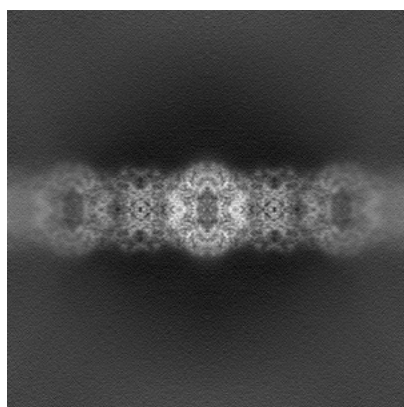


Y

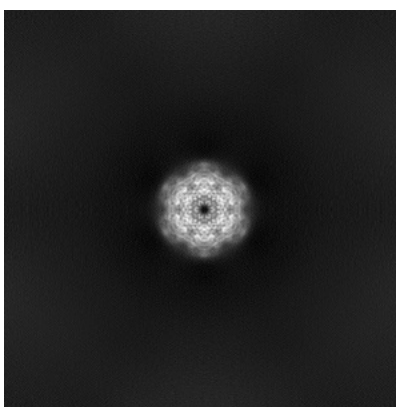


Z

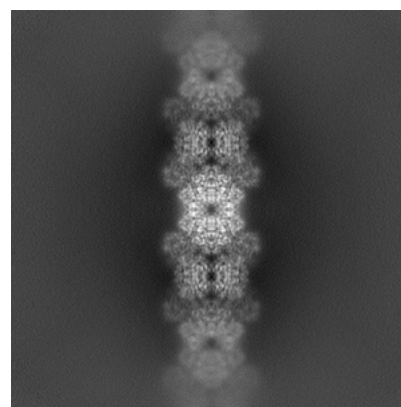
#### 6.1.2 Raw map



X



Y

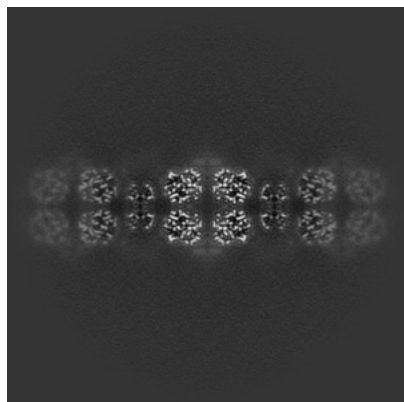


Z

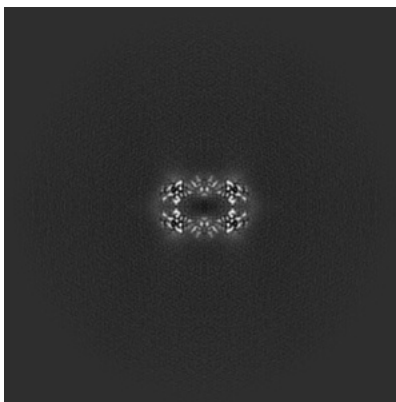
The images above show the map projected in three orthogonal directions.

## 6.2 Central slices [i](#)

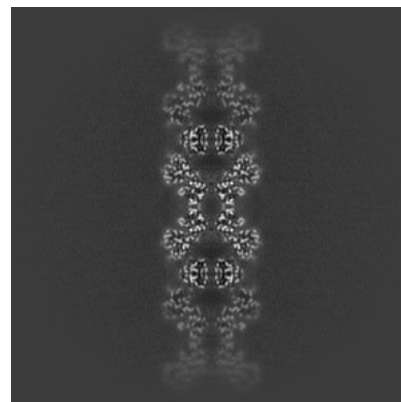
### 6.2.1 Primary map



X Index: 260

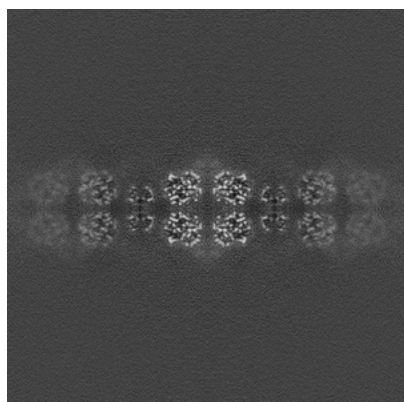


Y Index: 260

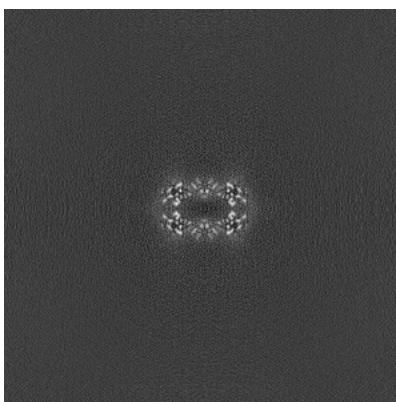


Z Index: 260

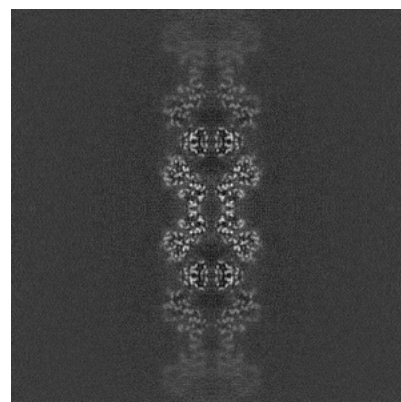
### 6.2.2 Raw map



X Index: 260



Y Index: 260

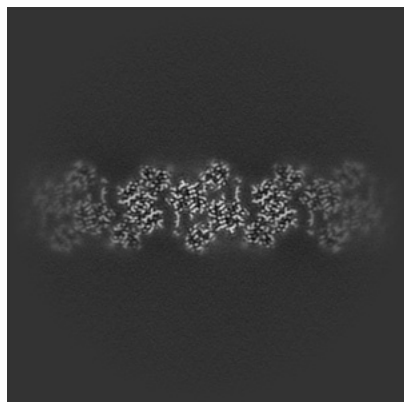


Z Index: 260

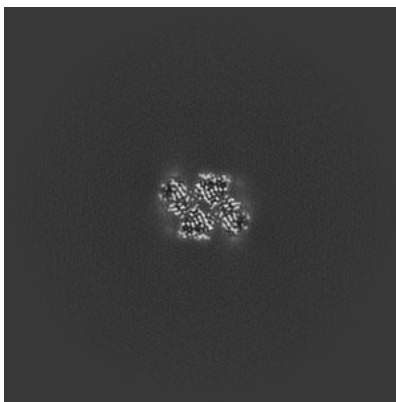
The images above show central slices of the map in three orthogonal directions.

## 6.3 Largest variance slices [i](#)

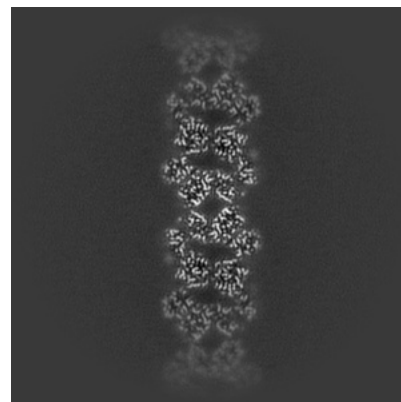
### 6.3.1 Primary map



X Index: 284

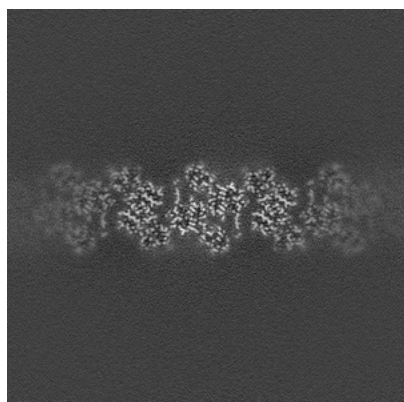


Y Index: 244

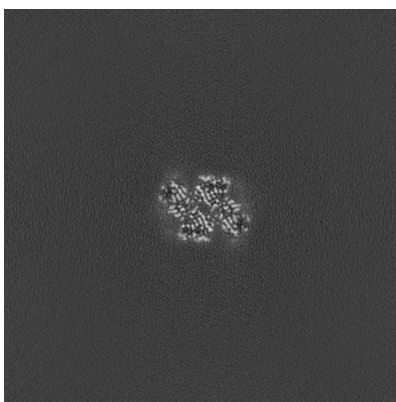


Z Index: 266

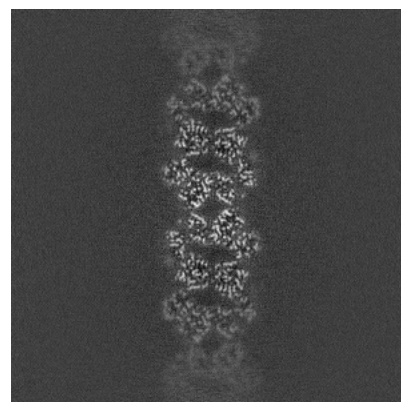
### 6.3.2 Raw map



X Index: 236



Y Index: 244

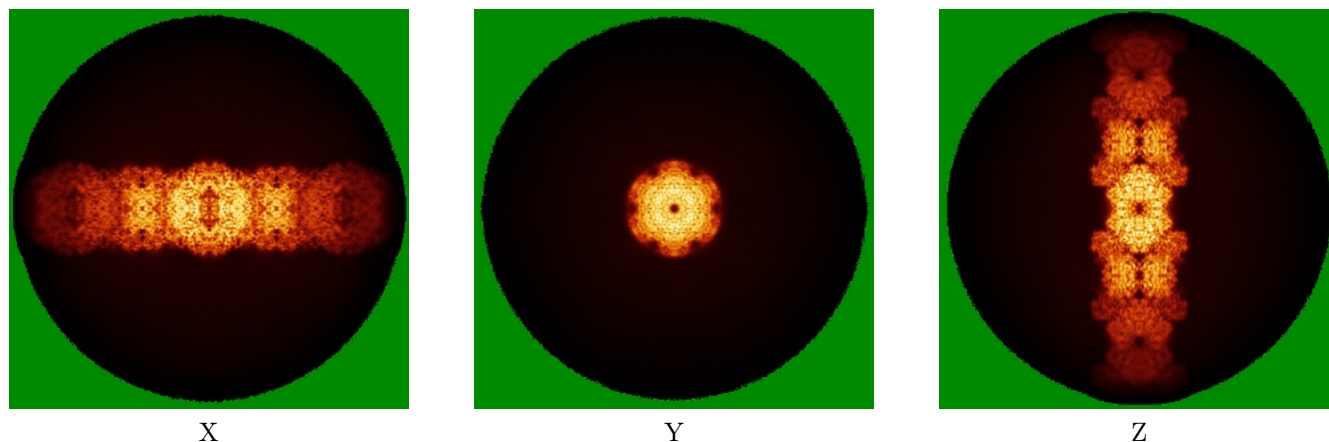


Z Index: 266

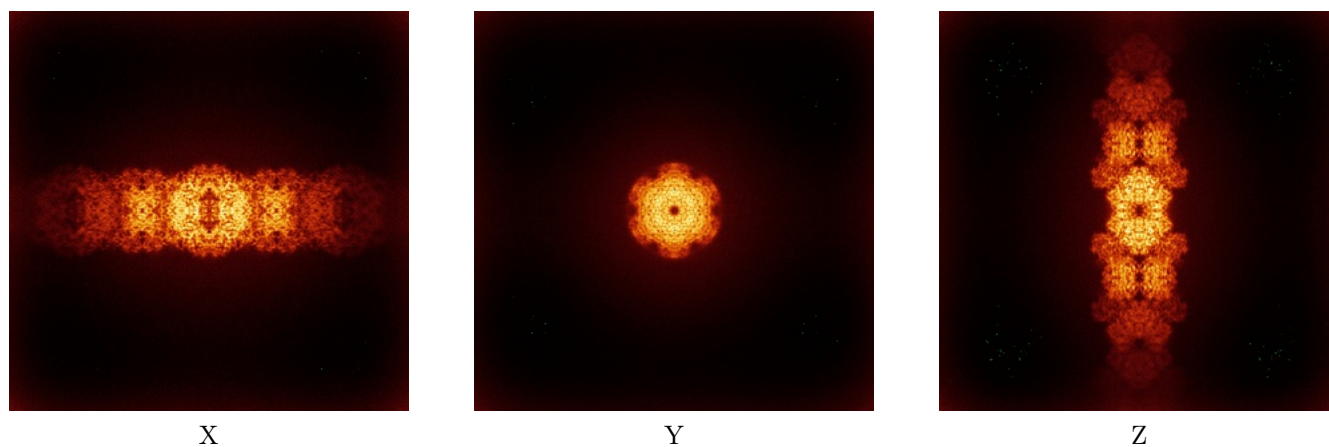
The images above show the largest variance slices of the map in three orthogonal directions.

## 6.4 Orthogonal standard-deviation projections (False-color) [i](#)

### 6.4.1 Primary map



### 6.4.2 Raw map

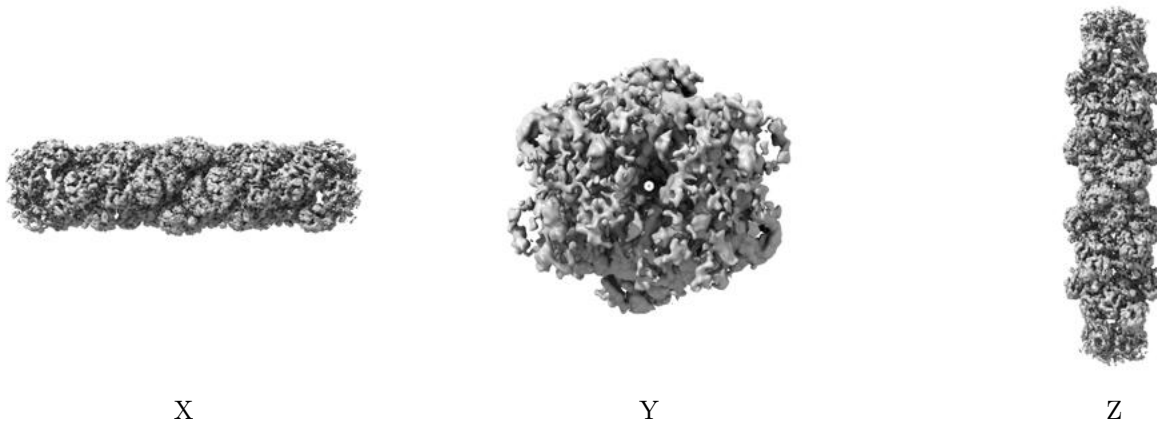


The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.



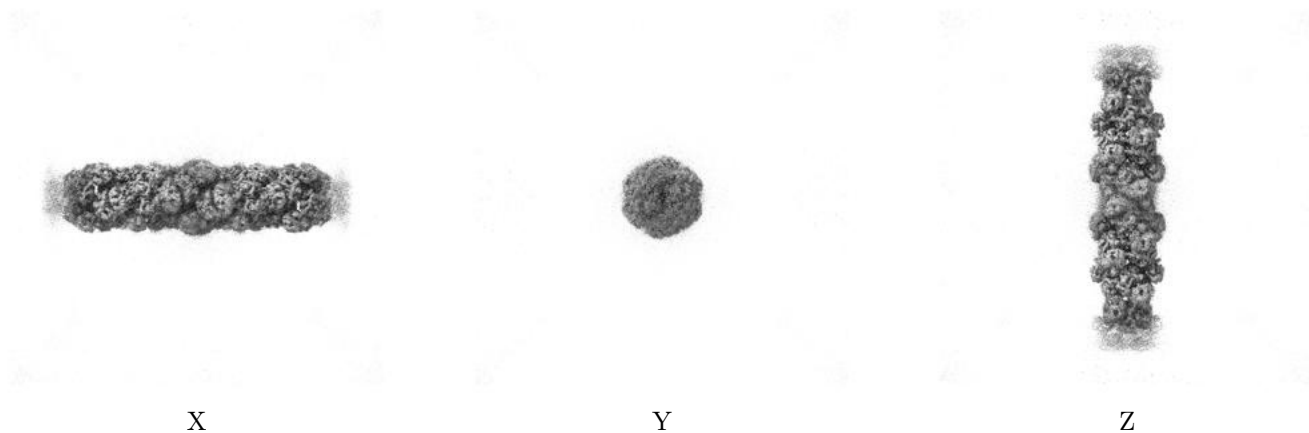
## 6.5 Orthogonal surface views [i](#)

### 6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.13. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

### 6.5.2 Raw map



These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

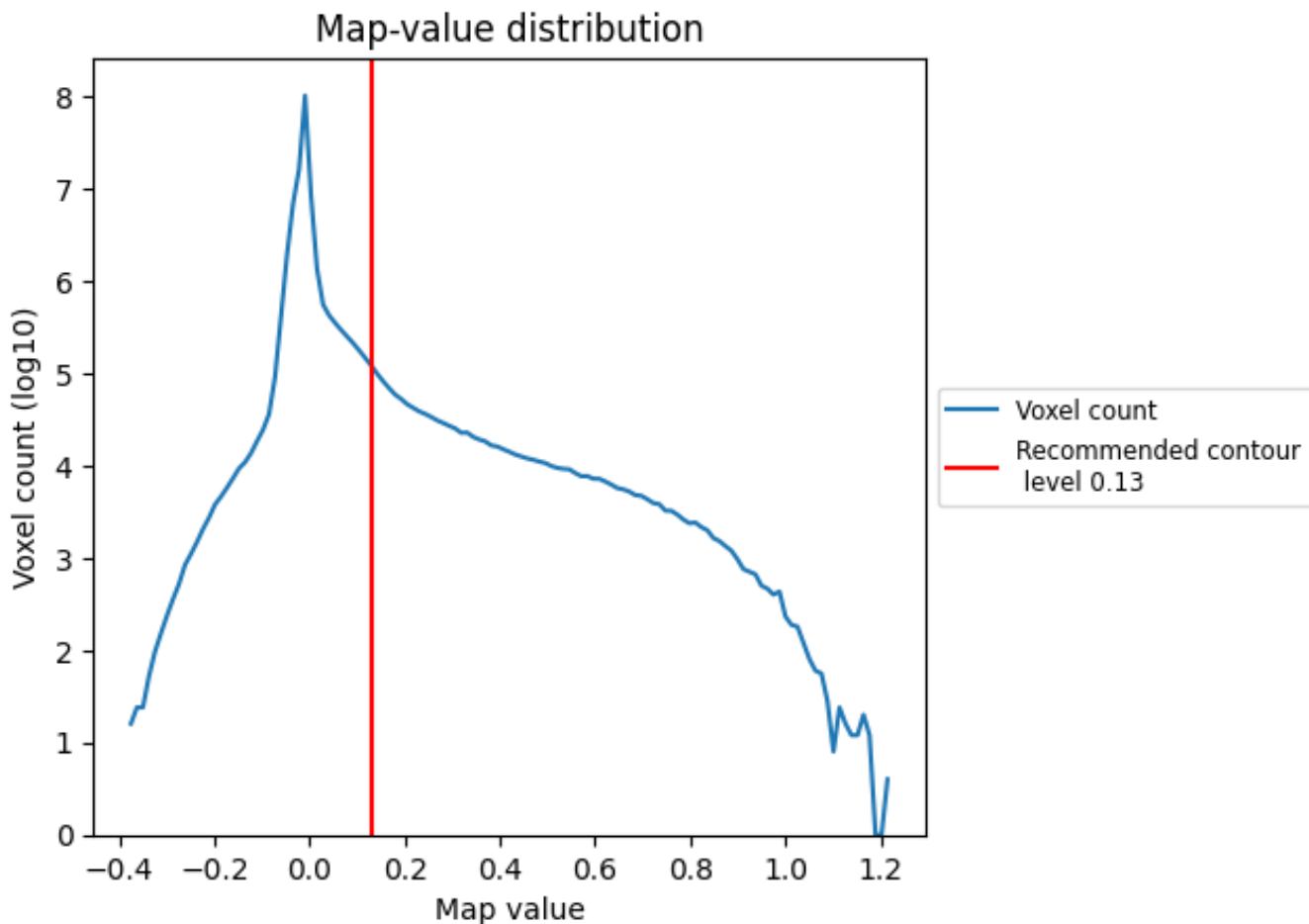
## 6.6 Mask visualisation [i](#)

This section was not generated. No masks/segmentation were deposited.

## 7 Map analysis [i](#)

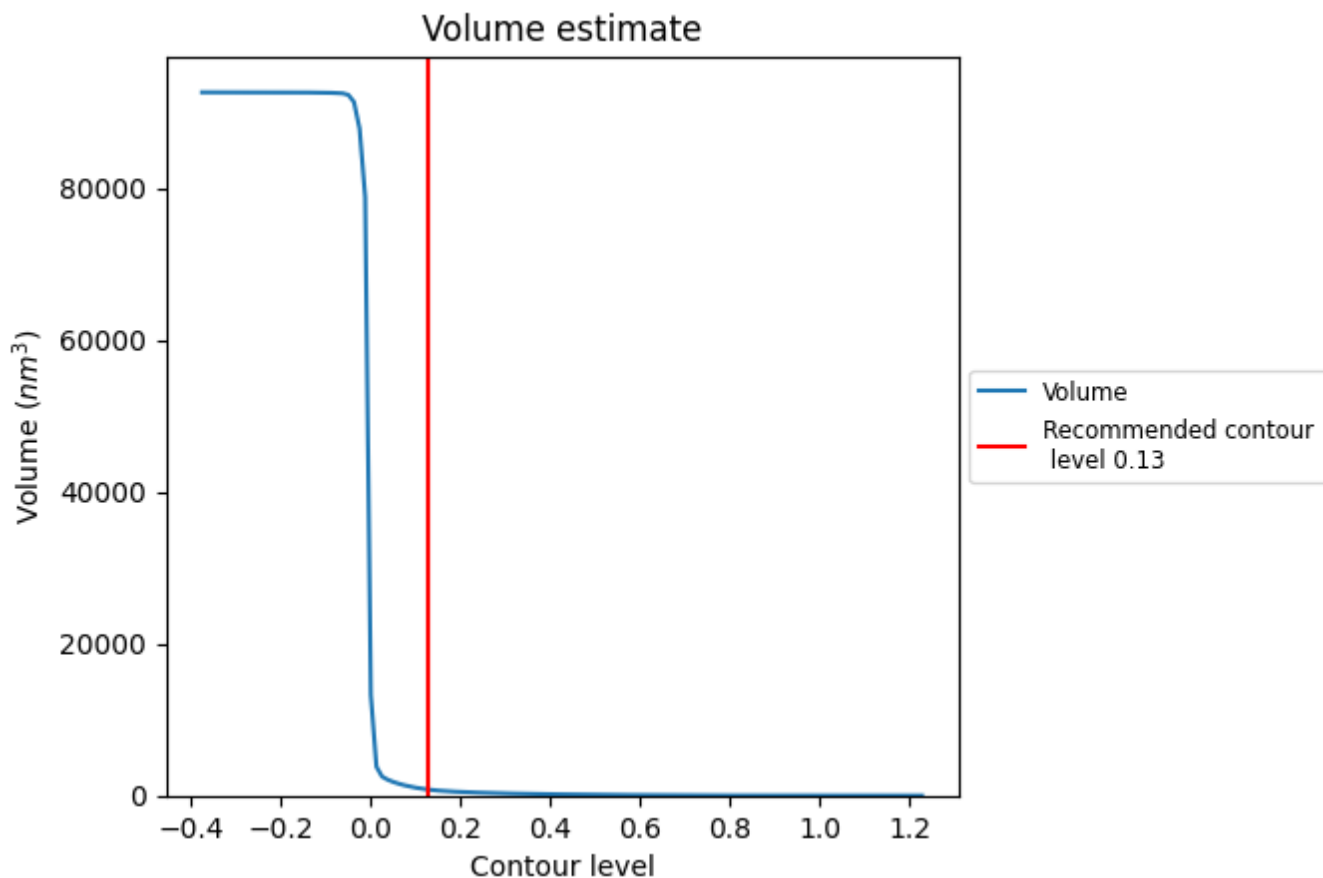
This section contains the results of statistical analysis of the map.

### 7.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

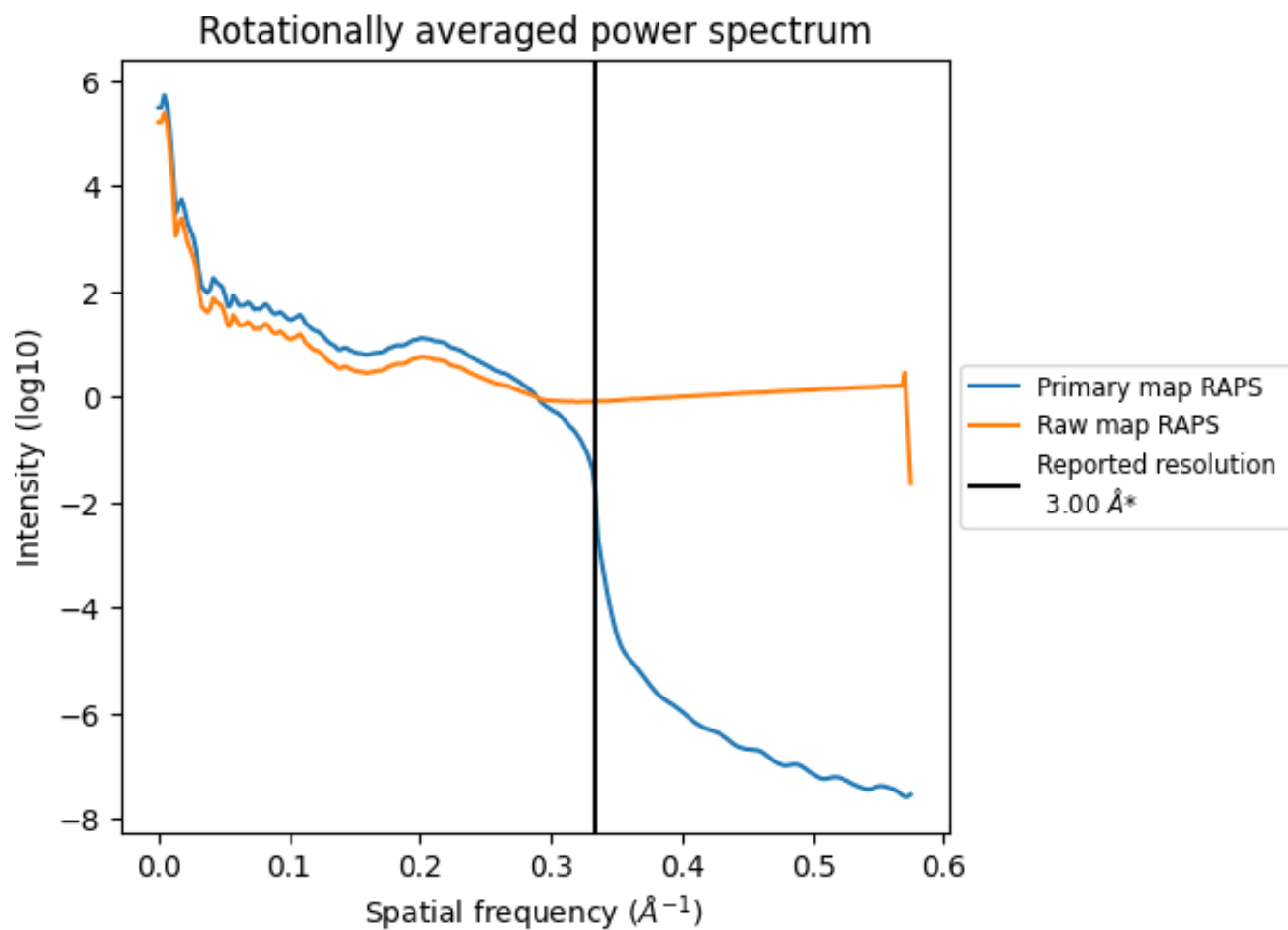
## 7.2 Volume estimate [\(i\)](#)



The volume at the recommended contour level is 781  $\text{nm}^3$ ; this corresponds to an approximate mass of 706 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

### 7.3 Rotationally averaged power spectrum i

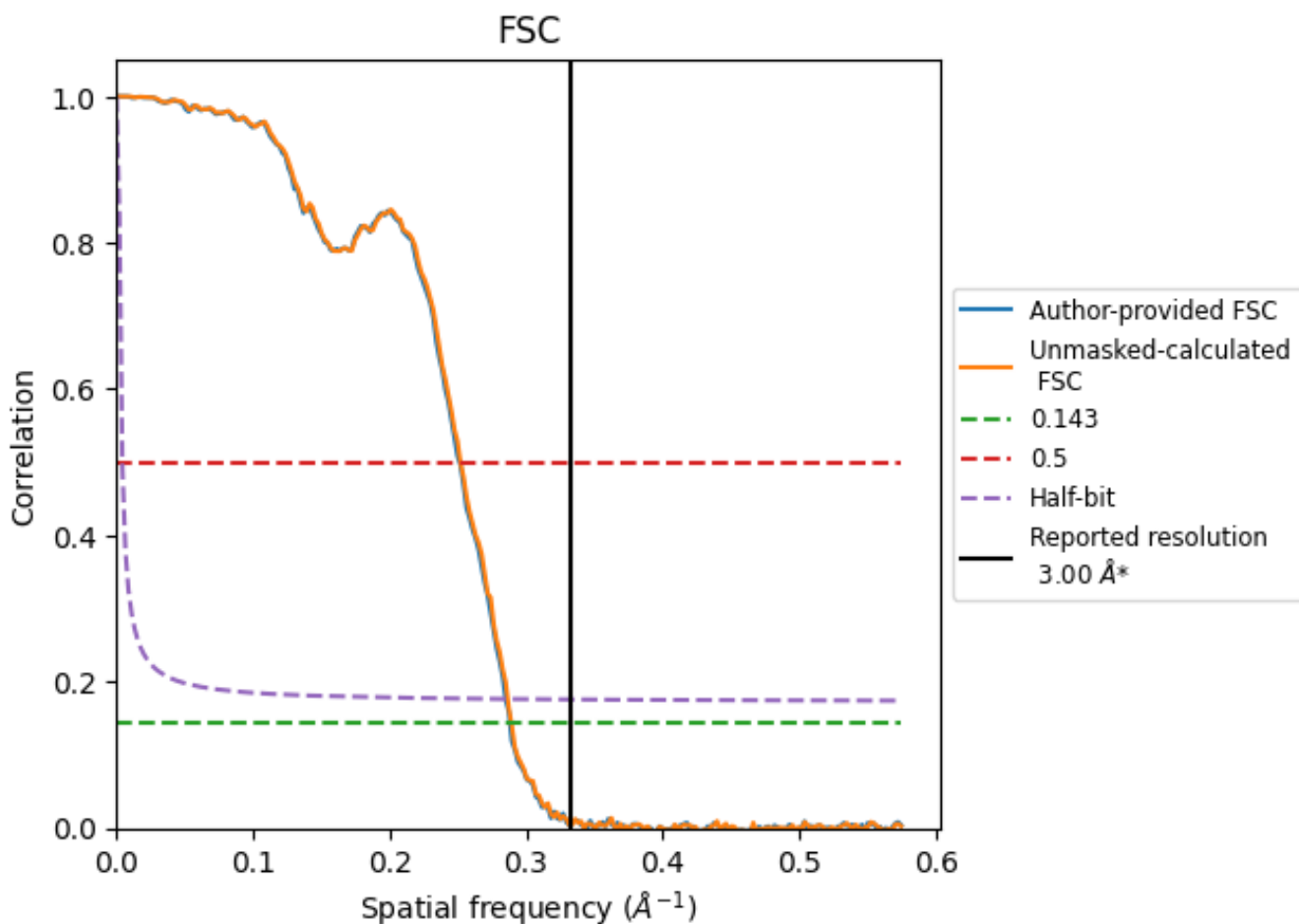


\*Reported resolution corresponds to spatial frequency of 0.333 Å<sup>-1</sup>

## 8 Fourier-Shell correlation [i](#)

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

### 8.1 FSC [i](#)



\*Reported resolution corresponds to spatial frequency of 0.333 Å<sup>-1</sup>

## 8.2 Resolution estimates [i](#)

Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.00	-	-
Author-provided FSC curve	3.47	3.98	3.51
Unmasked-calculated*	3.46	3.97	3.49

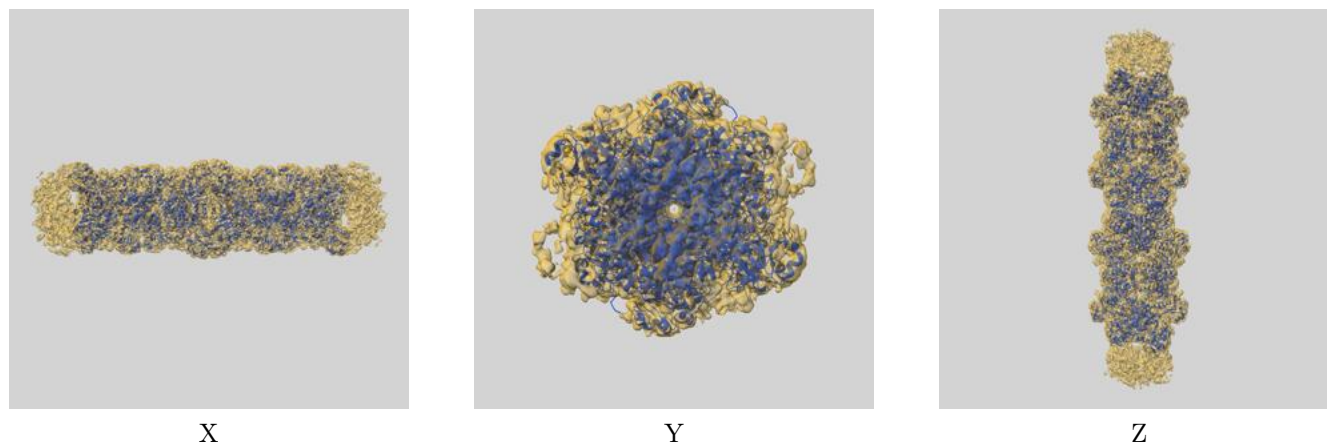
\*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from author-provided FSC intersecting FSC 0.143 CUT-OFF 3.47 differs from the reported value 3.0 by more than 10 %

The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 3.46 differs from the reported value 3.0 by more than 10 %

## 9 Map-model fit [i](#)

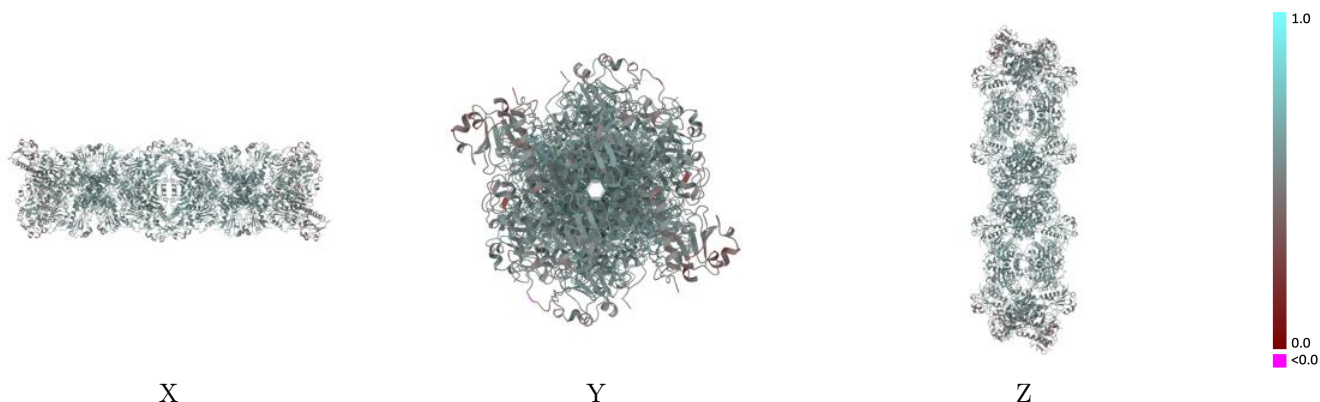
This section contains information regarding the fit between EMDB map EMD-15603 and PDB model 8ARI. Per-residue inclusion information can be found in section 3 on page 41.

### 9.1 Map-model overlay [i](#)



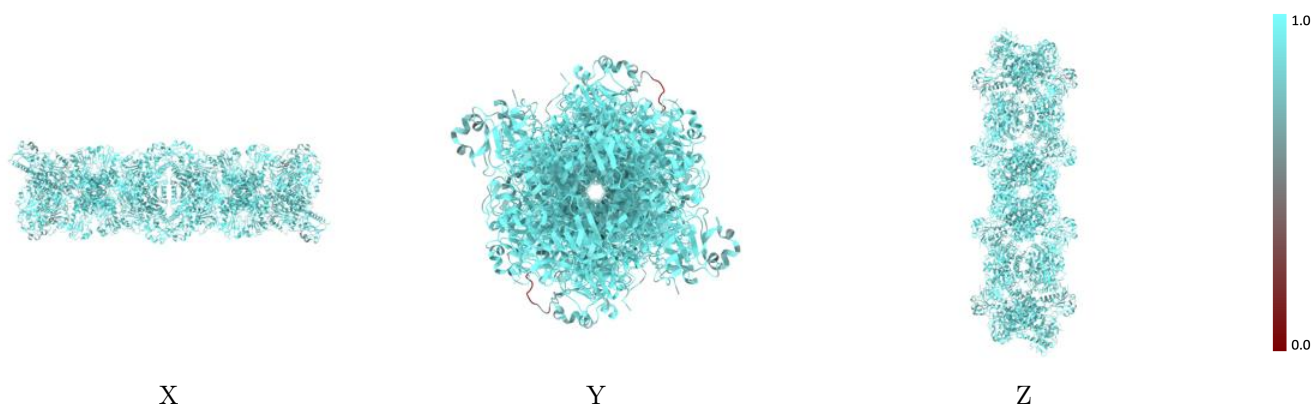
The images above show the 3D surface view of the map at the recommended contour level 0.13 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

## 9.2 Q-score mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

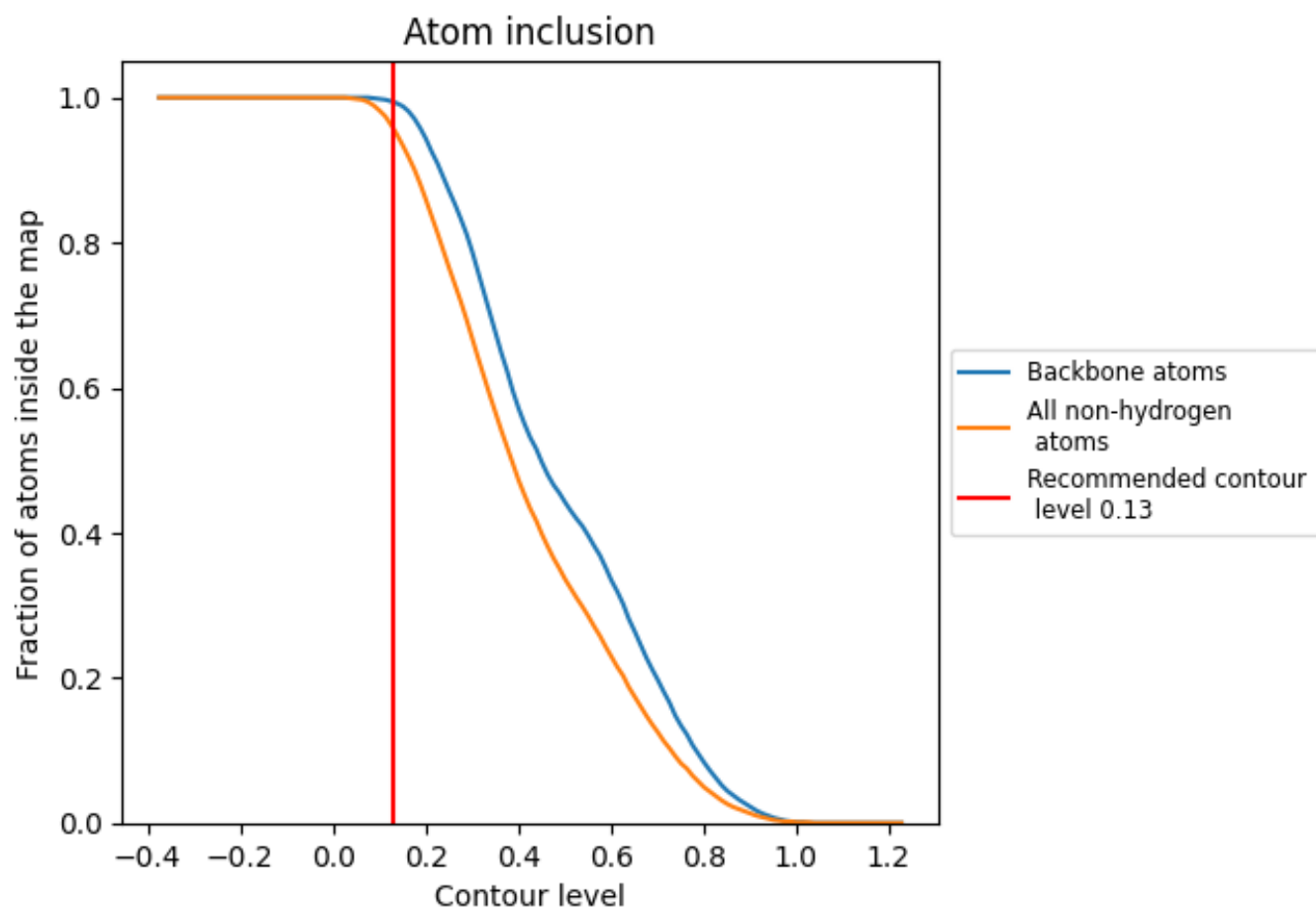
## 9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.13).









































































## 9.4 Atom inclusion [i](#)



At the recommended contour level, 99% of all backbone atoms, 96% of all non-hydrogen atoms, are inside the map.

## 9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.13) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.9580	 0.5530
A	 0.9220	 0.5230
B	 0.9000	 0.5090
C	 0.8990	 0.5100
D	 0.9210	 0.5220
E	 0.9830	 0.5740
F	 0.9770	 0.5690
G	 0.9760	 0.5670
H	 0.9820	 0.5730
I	 0.9950	 0.5810
J	 0.9950	 0.5800
K	 0.9950	 0.5800
L	 0.9950	 0.5800
M	 0.9950	 0.5810
N	 0.9950	 0.5780
O	 0.9950	 0.5790
P	 0.9950	 0.5810
Q	 0.9830	 0.5730
R	 0.9770	 0.5670
S	 0.9760	 0.5680
T	 0.9820	 0.5740
U	 0.9230	 0.5230
V	 0.8990	 0.5080
W	 0.8990	 0.5090
X	 0.9210	 0.5240
a	 0.5800	 0.4340
b	 0.5870	 0.4390
c	 0.9270	 0.5000
d	 0.9200	 0.5110
e	 0.9930	 0.4530
f	 0.9570	 0.3860
g	 0.9270	 0.5010
h	 0.9130	 0.5000
i	 0.6010	 0.4400
j	 0.5940	 0.4360

