



# Full wwPDB X-ray Structure Validation Report ⓘ

Jun 26, 2024 – 03:48 AM EDT

PDB ID : 7BMJ  
Title : Aspartyl/Asparaginyl beta-hydroxylase (AspH) oxygenase and TPR domains in complex with manganese, 5-fluoropyridine-2,4-dicarboxylic acid, and factor X substrate peptide fragment (39mer-4Ser)  
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Deposited on : 2021-01-20  
Resolution : 1.75 Å(reported)

This is a Full wwPDB X-ray Structure Validation 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/XrayValidationReportHelp>

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:

MolProbity : 4.02b-467  
Mogul : 1.8.5 (274361), CSD as541be (2020)  
Xtriage (Phenix) : 1.13  
EDS : 2.37.1  
buster-report : 1.1.7 (2018)  
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)  
Refmac : 5.8.0158  
CCP4 : 7.0.044 (Gargrove)  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.37.1

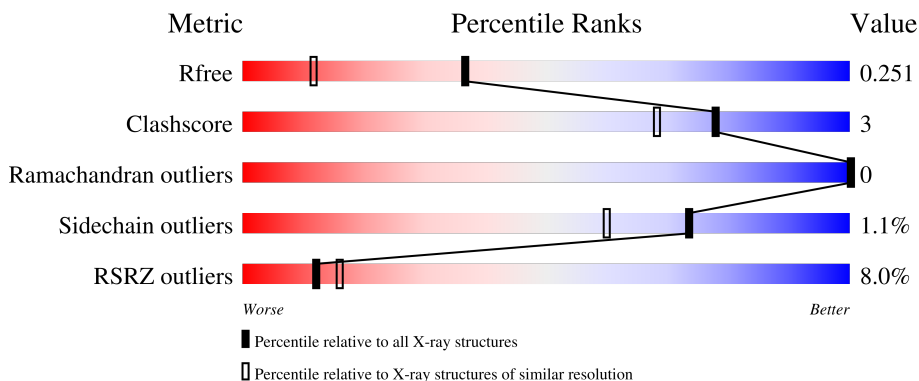
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 1.75 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)	Similar resolution (#Entries, resolution range(Å))
$R_{free}$	130704	2340 (1.76-1.76)
Clashscore	141614	2466 (1.76-1.76)
Ramachandran outliers	138981	2437 (1.76-1.76)
Sidechain outliers	138945	2437 (1.76-1.76)
RSRZ outliers	127900	2298 (1.76-1.76)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower 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 electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	429	 3% 95% 5%
1	C	429	 14% 91% 9%
2	B	39	 41% 54%

## 2 Entry composition i

There are 5 unique types of molecules in this entry. The entry contains 14554 atoms, of which 7008 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, 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 Aspartyl/asparaginyl beta-hydroxylase.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
			Total	C	H	N	O	S			
1	A	429	6996	2244	3455	634	651	12	0	15	0
1	C	428	6920	2219	3429	622	637	13	0	8	0

- Molecule 2 is a protein called Coagulation factor X.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
			Total	C	H	N	O	S			
2	B	18	255	83	120	21	29	2	0	1	0

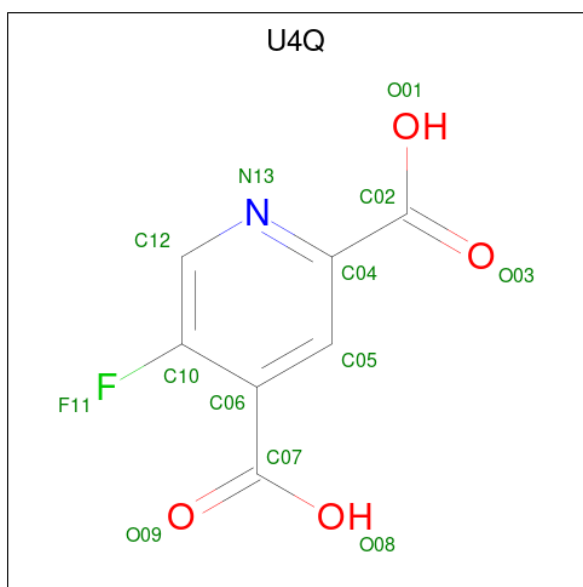
There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	90	SER	CYS	conflict	UNP P00742
B	95	SER	CYS	conflict	UNP P00742
B	112	SER	CYS	conflict	UNP P00742
B	121	SER	CYS	conflict	UNP P00742

- Molecule 3 is MANGANESE (II) ION (three-letter code: MN) (formula: Mn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	1	Total	Mn	0	0
			1	1		
3	C	1	Total	Mn	0	0
			1	1		

- Molecule 4 is 5-fluoranylpyridine-2,4-dicarboxylic acid (three-letter code: U4Q) (formula: C<sub>7</sub>H<sub>4</sub>FNO<sub>4</sub>) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	
			Total	C	F	H	N			O
4	A	1	Total	C	F	H	N	O	0	0
			15	7	1	2	1	4		
4	C	1	Total	C	F	H	N	O	0	0
			15	7	1	2	1	4		

- Molecule 5 is water.

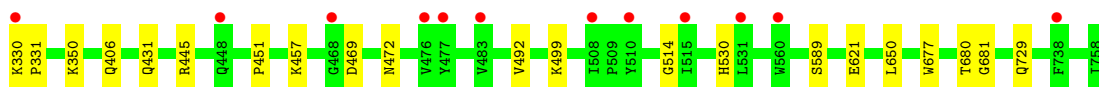
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	167	Total	O	0	0
			167	167		
5	B	10	Total	O	0	0
			10	10		
5	C	174	Total	O	0	0
			174	174		

### 3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red dot above a residue indicates a poor fit to the electron density ( $RSRZ > 2$ ). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

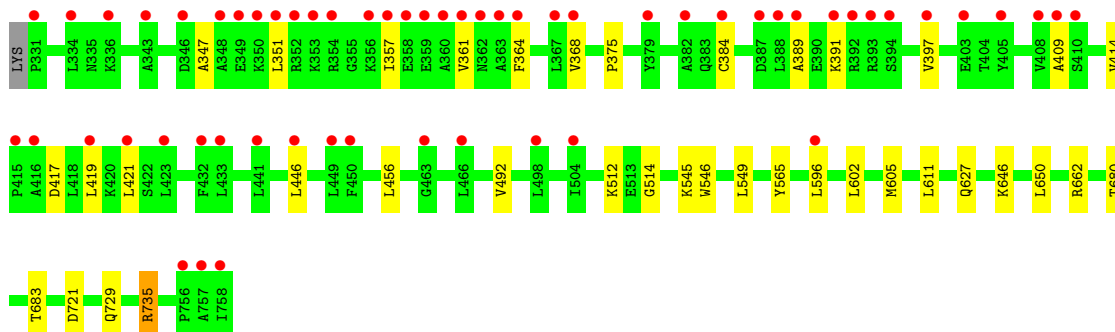
- Molecule 1: Aspartyl/asparaginyl beta-hydroxylase

Chain A: 



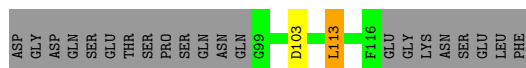
- Molecule 1: Aspartyl/asparaginyl beta-hydroxylase

Chain C: 



- Molecule 2: Coagulation factor X

Chain B: 



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	49.35Å 59.48Å 95.54Å 104.26° 91.51° 92.76°	Depositor
Resolution (Å)	46.26 – 1.75 46.26 – 1.75	Depositor EDS
% Data completeness (in resolution range)	91.3 (46.26-1.75) 91.3 (46.26-1.75)	Depositor EDS
$R_{merge}$	0.12	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.05 (at 1.75Å)	Xtrriage
Refinement program	PHENIX 1.17.1_3660	Depositor
R, $R_{free}$	0.221 , 0.251 0.221 , 0.251	Depositor DCC
$R_{free}$ test set	4879 reflections (5.04%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	33.9	Xtrriage
Anisotropy	0.237	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.37 , 52.3	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.49$ , $\langle L^2 \rangle = 0.32$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
$F_o, F_c$ correlation	0.97	EDS
Total number of atoms	14554	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	69.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 9.10% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

<sup>2</sup>Theoretical values of  $\langle |L| \rangle$ ,  $\langle L^2 \rangle$  for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

## 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: U4Q, MN

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	0.31	0/3645	0.49	0/4926
1	C	0.31	0/3573	0.50	0/4827
2	B	0.32	0/136	0.55	0/180
All	All	0.31	0/7354	0.50	0/9933

There are no bond length outliers.

There are no bond angle outliers.

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	3541	3455	3427	12	0
1	C	3491	3429	3421	29	0
2	B	135	120	119	1	0
3	A	1	0	0	0	0
3	C	1	0	0	0	0
4	A	13	2	0	0	0
4	C	13	2	0	0	0
5	A	167	0	0	2	0
5	B	10	0	0	0	0
5	C	174	0	0	1	0
All	All	7546	7008	6967	41	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 3.

All (41) 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:C:565:TYR:HB2	1:C:683[B]:THR:HG22	1.59	0.84
1:A:406:GLN:OE1	1:A:445:ARG:NH1	2.16	0.79
1:A:589[A]:SER:OG	1:A:650:LEU:HD11	1.85	0.77
1:A:350:LYS:NZ	5:A:901:HOH:O	2.21	0.74
1:C:596[A]:LEU:HD21	1:C:646:LYS:HB3	1.76	0.68
1:C:357:ILE:O	1:C:361:VAL:HG23	1.98	0.64
1:C:596[B]:LEU:HD11	1:C:646:LYS:HD2	1.80	0.63
1:C:357:ILE:HD11	1:C:391:LYS:CD	2.29	0.63
1:C:596[B]:LEU:HD11	1:C:646:LYS:CD	2.30	0.61
1:C:611:LEU:HD12	5:C:912:HOH:O	1.99	0.61
1:C:361:VAL:HG22	1:C:384:CYS:HB3	1.83	0.60
1:C:375:PRO:HB3	1:C:414:VAL:HG13	1.81	0.60
1:C:409:ALA:HA	1:C:419:LEU:HD11	1.81	0.60
1:C:596[A]:LEU:HD21	1:C:646:LYS:CB	2.32	0.59
1:C:357:ILE:HD11	1:C:391:LYS:HD3	1.87	0.57
1:C:347:ALA:O	1:C:351:LEU:HD12	2.04	0.57
1:A:469:ASP:OD2	1:A:472:ASN:ND2	2.34	0.55
1:A:680:THR:HG22	1:A:681:GLY:O	2.07	0.54
1:C:357:ILE:HD11	1:C:391:LYS:HD2	1.91	0.51
1:C:662:ARG:HD3	1:C:683[A]:THR:HG21	1.92	0.51
1:C:492:VAL:HG13	1:C:514:GLY:HA3	1.93	0.50
1:C:446:LEU:HD13	1:C:456:LEU:HD22	1.93	0.50
1:C:446:LEU:CD1	1:C:456:LEU:HD22	2.42	0.50
1:A:492:VAL:HG13	1:A:514:GLY:HA3	1.95	0.48
1:C:351:LEU:HD12	1:C:351:LEU:H	1.77	0.48
1:A:650:LEU:HD12	5:A:1013:HOH:O	2.14	0.47
1:C:545:LYS:O	1:C:549:LEU:HG	2.15	0.47
1:C:389:ALA:HB2	1:C:397:VAL:HG12	1.96	0.47
1:C:417:ASP:O	1:C:421:LEU:HD12	2.15	0.47
1:A:621:GLU:HG3	1:A:677:TRP:CZ2	2.50	0.47
1:C:650:LEU:C	1:C:650:LEU:HD23	2.36	0.46
1:C:364:PHE:O	1:C:368[A]:VAL:HG12	2.15	0.45
1:C:596[B]:LEU:HD11	1:C:646:LYS:HD3	1.99	0.44
1:A:330:LYS:N	1:A:331:PRO:CD	2.81	0.43
1:C:735:ARG:O	1:C:735:ARG:HD2	2.17	0.43
1:C:602:LEU:HD23	1:C:605[B]:MET:HE3	2.03	0.41
1:C:735:ARG:CD	1:C:735:ARG:C	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:451:PRO:O	1:A:457:LYS:NZ	2.53	0.41
1:A:499:LYS:HD3	1:A:530:HIS:HB3	2.03	0.41
1:C:512:LYS:HG3	1:C:546:TRP:CZ2	2.56	0.41
1:A:431:GLN:O	2:B:113:LEU:HD11	2.21	0.40

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 X-ray entries followed by that with respect to entries of similar resolution.

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	442/429 (103%)	437 (99%)	5 (1%)	0	100	100
1	C	434/429 (101%)	430 (99%)	4 (1%)	0	100	100
2	B	17/39 (44%)	15 (88%)	2 (12%)	0	100	100
All	All	893/897 (100%)	882 (99%)	11 (1%)	0	100	100

There are no Ramachandran outliers to report.

### 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 X-ray entries followed by that with respect to entries of similar resolution.

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	369/371 (100%)	368 (100%)	1 (0%)	92	89
1	C	363/371 (98%)	358 (99%)	5 (1%)	67	52
2	B	14/33 (42%)	11 (79%)	3 (21%)	1	0

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
All	All	746/775 (96%)	737 (99%)	9 (1%)	73 56

All (9) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	729	GLN
2	B	103[A]	ASP
2	B	103[B]	ASP
2	B	113	LEU
1	C	627	GLN
1	C	680	THR
1	C	721	ASP
1	C	729	GLN
1	C	735	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

### 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](#)

Of 4 ligands modelled in this entry, 2 are monoatomic - leaving 2 for Mogul analysis.

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	$\# Z  > 2$
4	U4Q	C	802	3	13,13,13	1.14	0	17,18,18	1.40	3 (17%)
4	U4Q	A	802	3	13,13,13	1.11	0	17,18,18	1.16	1 (5%)

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
4	U4Q	C	802	3	-	4/8/8/8	0/1/1/1
4	U4Q	A	802	3	-	4/8/8/8	0/1/1/1

There are no bond length outliers.

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed( $^{\circ}$ )	Ideal( $^{\circ}$ )
4	C	802	U4Q	C12-N13-C04	2.43	121.14	117.36
4	C	802	U4Q	C05-C04-N13	-2.33	120.26	123.19
4	A	802	U4Q	O01-C02-C04	2.28	119.88	114.69
4	C	802	U4Q	C10-C12-N13	-2.09	120.93	122.77

There are no chirality outliers.

All (8) torsion outliers are listed below:

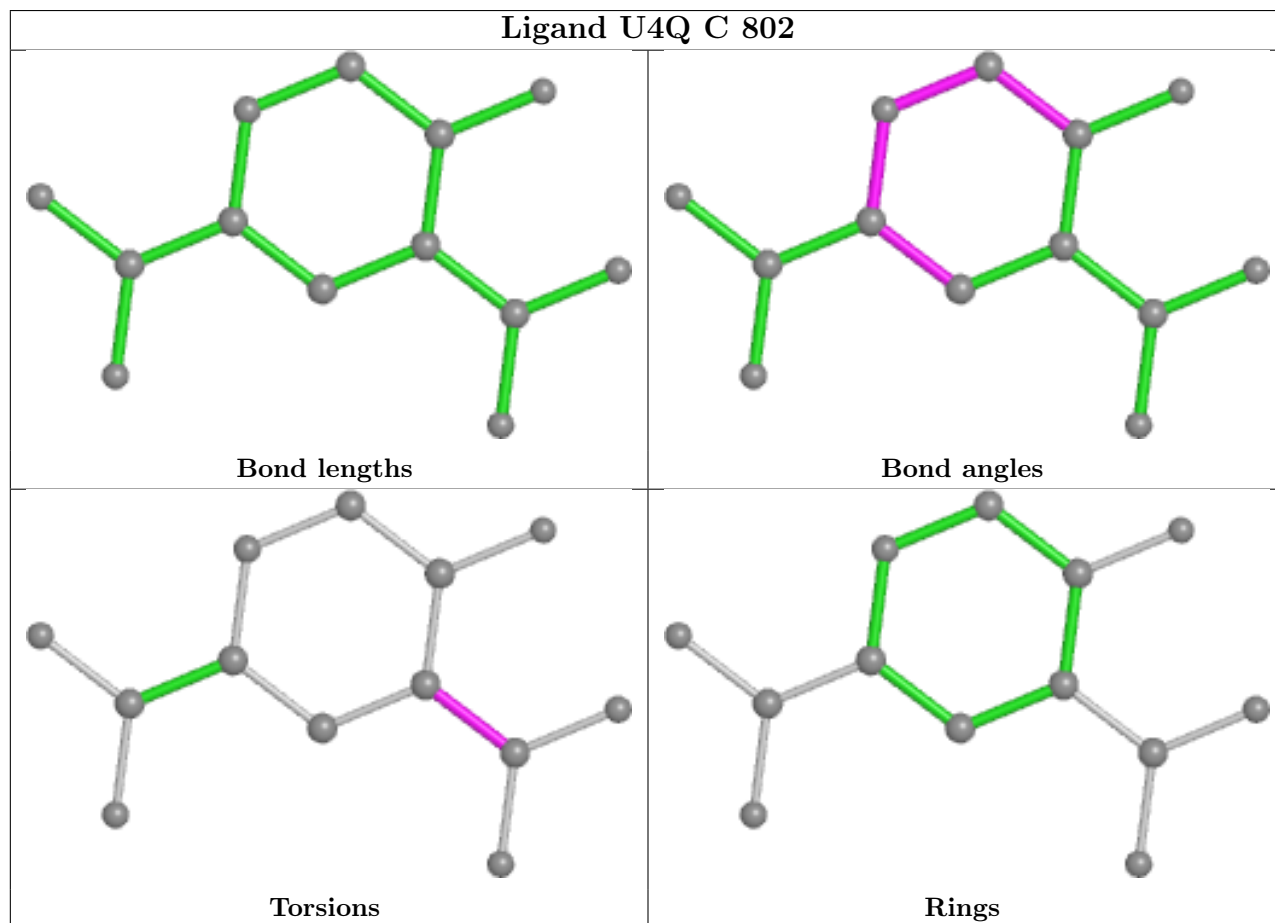
Mol	Chain	Res	Type	Atoms
4	A	802	U4Q	C10-C06-C07-O08
4	A	802	U4Q	C10-C06-C07-O09
4	C	802	U4Q	C10-C06-C07-O08
4	C	802	U4Q	C10-C06-C07-O09
4	C	802	U4Q	C05-C06-C07-O09
4	C	802	U4Q	C05-C06-C07-O08
4	A	802	U4Q	C05-C06-C07-O08
4	A	802	U4Q	C05-C06-C07-O09

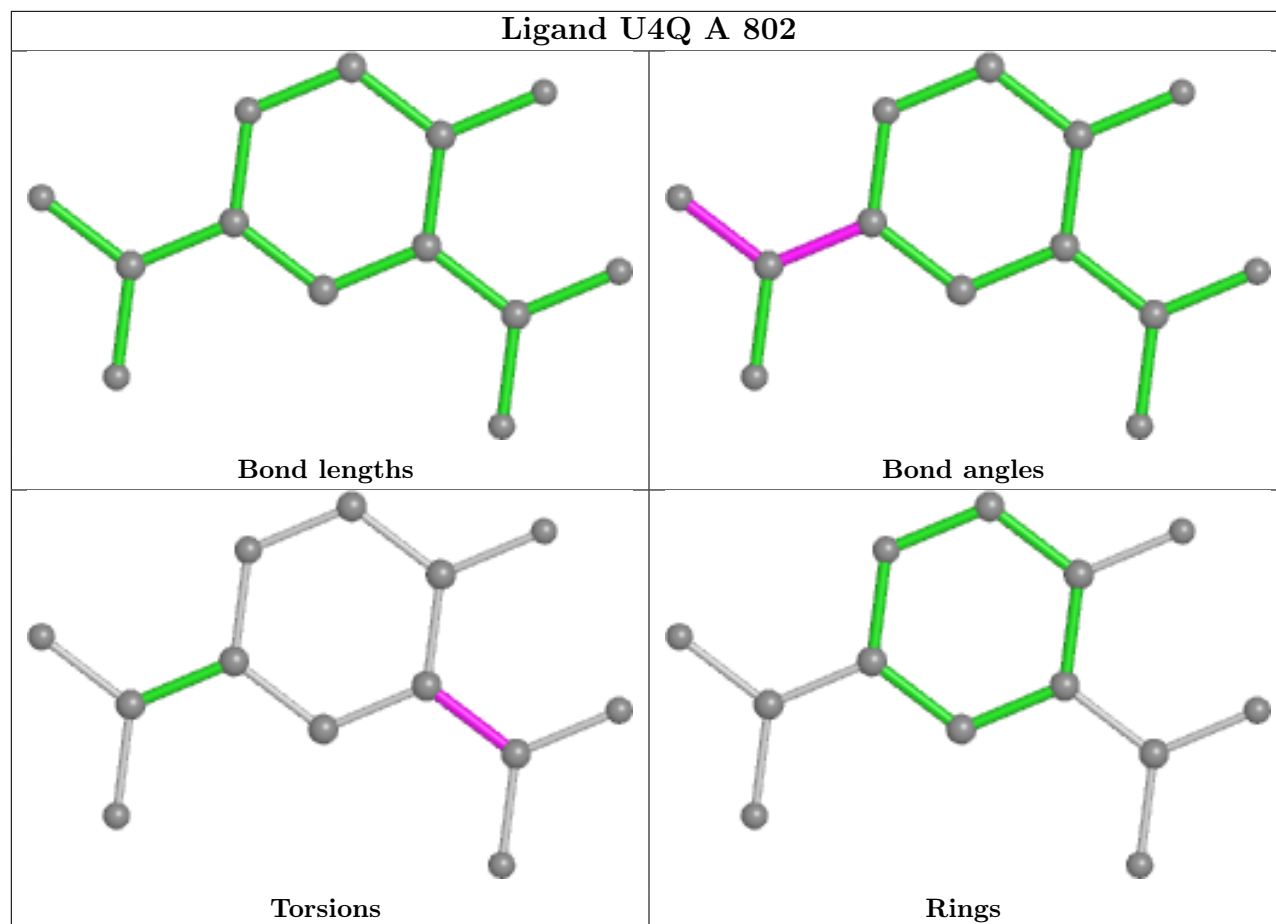
There are no ring outliers.

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 Fit of model and data

### 6.1 Protein, DNA and RNA chains

In the following table, the column labelled ‘#RSRZ > 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95<sup>th</sup> percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q < 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
1	A	429/429 (100%)	0.46	12 (2%) 53 58	32, 56, 94, 122	0
1	C	428/429 (99%)	0.80	58 (13%) 3 4	33, 62, 112, 147	0
2	B	18/39 (46%)	0.34	0 100 100	50, 61, 70, 80	0
All	All	875/897 (97%)	0.62	70 (8%) 12 16	32, 59, 103, 147	0

All (70) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	361	VAL	7.7
1	C	397	VAL	7.4
1	C	360	ALA	7.2
1	C	357	ILE	6.5
1	C	388	LEU	6.4
1	C	363	ALA	6.2
1	C	351	LEU	6.1
1	C	391	LYS	5.0
1	C	334	LEU	4.8
1	C	757	ALA	4.8
1	C	432	PHE	4.7
1	C	353	LYS	4.5
1	C	408	VAL	4.4
1	C	364	PHE	4.4
1	C	389	ALA	4.3
1	C	433	LEU	4.0
1	C	419	LEU	3.9
1	C	352	ARG	3.8
1	C	393	ARG	3.8
1	C	356	LYS	3.8
1	A	515	ILE	3.8
1	A	560[A]	TRP	3.7
1	C	450	PHE	3.7

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Mol	Chain	Res	Type	RSRZ
1	C	449	LEU	3.7
1	C	409	ALA	3.6
1	C	379	TYR	3.6
1	C	359	GLU	3.6
1	A	483	VAL	3.5
1	A	476	VAL	3.5
1	C	350	LYS	3.4
1	A	330	LYS	3.3
1	C	343	ALA	3.3
1	C	384	CYS	3.3
1	C	394	SER	3.2
1	C	466	LEU	3.2
1	C	336	LYS	3.0
1	C	416	ALA	3.0
1	C	441	LEU	3.0
1	C	410	SER	2.9
1	C	358	GLU	2.9
1	C	331	PRO	2.8
1	C	362	ASN	2.8
1	C	392	ARG	2.7
1	C	415	PRO	2.7
1	C	349	GLU	2.7
1	C	758	ILE	2.7
1	C	421	LEU	2.7
1	C	504	ILE	2.7
1	C	387	ASP	2.7
1	C	368[A]	VAL	2.6
1	C	446	LEU	2.6
1	C	354	ARG	2.6
1	A	738	PHE	2.6
1	C	596[A]	LEU	2.6
1	C	403	GLU	2.6
1	A	531	LEU	2.6
1	C	367	LEU	2.5
1	C	348	ALA	2.4
1	A	510	TYR	2.4
1	A	448	GLN	2.4
1	C	756	PRO	2.3
1	C	498	LEU	2.3
1	A	477	TYR	2.2
1	A	468	GLY	2.2
1	C	423	LEU	2.1

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	RSRZ
1	C	382	ALA	2.1
1	A	508	ILE	2.1
1	C	405	TYR	2.0
1	C	346	ASP	2.0
1	C	463	GLY	2.0

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

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

## 6.3 Carbohydrates [i](#)

There are no monosaccharides in this entry.

## 6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95<sup>th</sup> percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

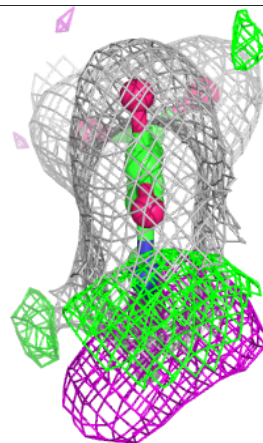
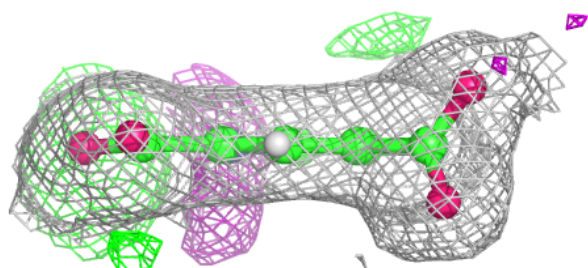
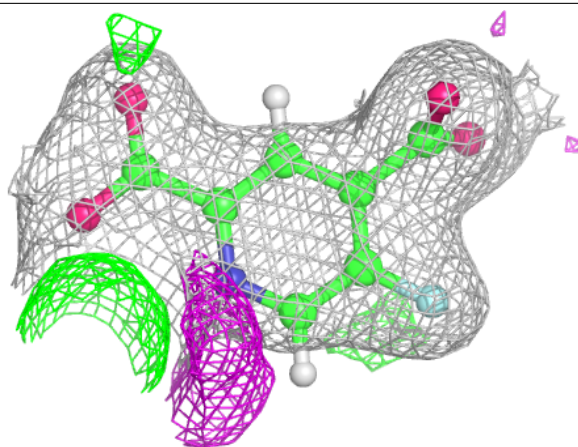
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
4	U4Q	C	802	13/13	0.91	0.10	34,36,43,44	0
4	U4Q	A	802	13/13	0.95	0.13	37,39,47,49	0
3	MN	C	801	1/1	0.97	0.33	71,71,71,71	0
3	MN	A	801	1/1	0.99	0.25	54,54,54,54	0

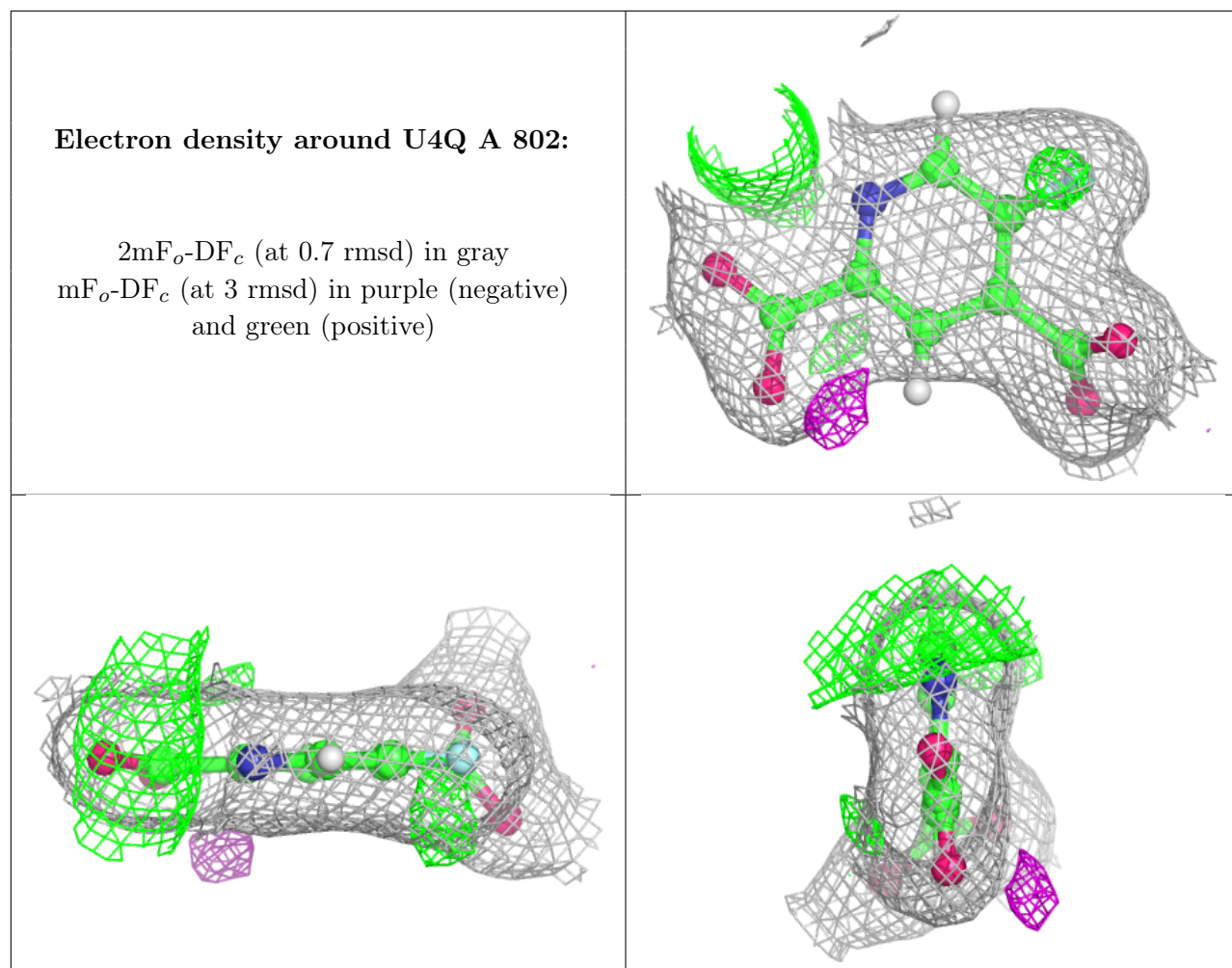
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.



**Electron density around U4Q C 802:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)





## 6.5 Other polymers [i](#)

There are no such residues in this entry.