



# Full wwPDB X-ray Structure Validation Report ⓘ

Dec 14, 2023 – 07:17 am GMT

PDB ID : 3ZTD  
Title : pVHL54-213-EloB-EloC complex \_ methyl 4-(((2S,4R)-4-hydroxy-1-(2-(3-methylisoxazol-5-yl)acetyl)pyrrolidine-2-carboxamido)methyl)benzoate  
Authors : VanMolle, I.; Buckley, D.L.; Crews, C.M.; Ciulli, A.  
Deposited on : 2011-07-07  
Resolution : 2.79 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>.

---

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

MolProbity : 4.02b-467  
Mogul : 1.8.4, CSD as541be (2020)  
Xtriage (Phenix) : 1.13  
EDS : 2.36  
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) : 2.36

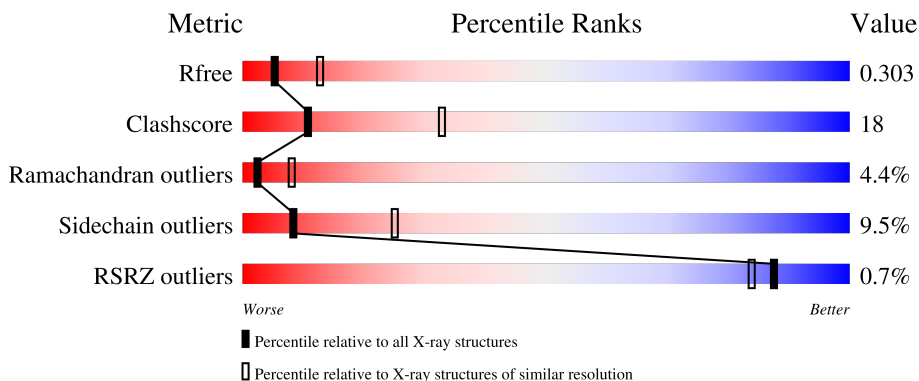
# 1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 2.79 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	3140 (2.80-2.80)
Clashscore	141614	3569 (2.80-2.80)
Ramachandran outliers	138981	3498 (2.80-2.80)
Sidechain outliers	138945	3500 (2.80-2.80)
RSRZ outliers	127900	3078 (2.80-2.80)

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	118	<div style="display: flex; align-items: center;"> <div style="width: 2%; height: 10px; background-color: red; margin-right: 2px;"></div> <div style="width: 50%; height: 10px; background-color: green; margin-right: 2px;"></div> <div style="width: 31%; height: 10px; background-color: yellow; margin-right: 2px;"></div> <div style="width: 5%; height: 10px; background-color: orange; margin-right: 2px;"></div> <div style="width: 14%; height: 10px; background-color: grey;"></div> </div> <p style="text-align: center;">%      50%      31%      5%      14%</p>
1	D	118	<div style="display: flex; align-items: center;"> <div style="width: 2%; height: 10px; background-color: red; margin-right: 2px;"></div> <div style="width: 48%; height: 10px; background-color: green; margin-right: 2px;"></div> <div style="width: 26%; height: 10px; background-color: yellow; margin-right: 2px;"></div> <div style="width: 10%; height: 10px; background-color: orange; margin-right: 2px;"></div> <div style="width: 15%; height: 10px; background-color: grey;"></div> </div> <p style="text-align: center;">%      48%      26%      10%      15%</p>
1	G	118	<div style="display: flex; align-items: center;"> <div style="width: 2%; height: 10px; background-color: red; margin-right: 2px;"></div> <div style="width: 36%; height: 10px; background-color: green; margin-right: 2px;"></div> <div style="width: 39%; height: 10px; background-color: yellow; margin-right: 2px;"></div> <div style="width: 10%; height: 10px; background-color: orange; margin-right: 2px;"></div> <div style="width: 14%; height: 10px; background-color: grey;"></div> </div> <p style="text-align: center;">2%      36%      39%      10%      14%</p>
1	J	118	<div style="display: flex; align-items: center;"> <div style="width: 44%; height: 10px; background-color: green; margin-right: 2px;"></div> <div style="width: 36%; height: 10px; background-color: yellow; margin-right: 2px;"></div> <div style="width: 8%; height: 10px; background-color: orange; margin-right: 2px;"></div> <div style="width: 12%; height: 10px; background-color: grey;"></div> </div> <p style="text-align: center;">44%      36%      8%      12%</p>
2	B	97	<div style="display: flex; align-items: center;"> <div style="width: 59%; height: 10px; background-color: green; margin-right: 2px;"></div> <div style="width: 26%; height: 10px; background-color: yellow; margin-right: 2px;"></div> <div style="width: 11%; height: 10px; background-color: grey;"></div> </div> <p style="text-align: center;">59%      26%      11%</p>

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Length	Quality of chain
2	E	97	 63% 23% 5% 10%
2	H	97	 54% 31% 5% 10%
2	K	97	 58% 27% 5% 10%
3	C	162	 55% 25% 5% 14%
3	F	162	 57% 23% 7% 12%
3	I	162	 54% 30% 5% 12%
3	L	162	 54% 27% 6% 12%

## 2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 10408 atoms, of which 0 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 TRANSCRIPTION ELONGATION FACTOR B POLYPEPTIDE 2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	102	772	491	128	149	4	0	0	0
1	D	100	738	469	121	145	3	0	0	0
1	G	102	775	492	131	148	4	0	0	0
1	J	104	795	506	134	150	5	0	0	0

- Molecule 2 is a protein called TRANSCRIPTION ELONGATION FACTOR B POLYPEPTIDE 1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	B	86	677	439	106	126	6	0	0	0
2	E	87	674	436	107	125	6	0	0	0
2	H	87	681	440	109	126	6	0	0	0
2	K	87	687	444	110	127	6	0	0	0

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	16	MET	-	cloning artifact	UNP Q15369
E	16	MET	-	cloning artifact	UNP Q15369
H	16	MET	-	cloning artifact	UNP Q15369
K	16	MET	-	cloning artifact	UNP Q15369

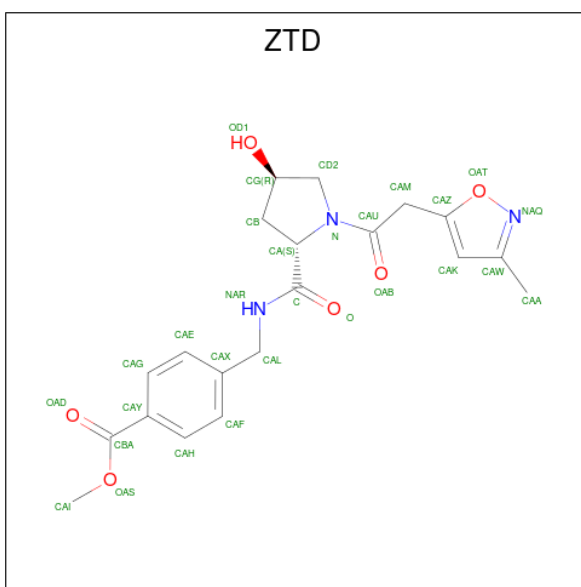
- Molecule 3 is a protein called VON HIPPEL-LINDAU DISEASE TUMOR SUPPRESSOR.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
3	C	139	Total 1089	C 695	N 192	O 200	S 2	0	0	0
3	F	142	Total 1126	C 720	N 199	O 205	S 2	0	0	0
3	I	142	Total 1119	C 717	N 196	O 204	S 2	0	0	0
3	L	142	Total 1146	C 729	N 208	O 207	S 2	0	0	0

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C	52	GLY	-	expression tag	UNP P40337
C	53	SER	-	expression tag	UNP P40337
F	52	GLY	-	expression tag	UNP P40337
F	53	SER	-	expression tag	UNP P40337
I	52	GLY	-	expression tag	UNP P40337
I	53	SER	-	expression tag	UNP P40337
L	52	GLY	-	expression tag	UNP P40337
L	53	SER	-	expression tag	UNP P40337

- Molecule 4 is METHYL 4-[(4R)-4-HYDROXY-1-[(3-METHYLISOXAZOL-5-YL)ACETYL]-L-PROLYL}AMINO)METHYL]BENZOATE (three-letter code: ZTD) (formula:  $C_{20}H_{23}N_3O_6$ ).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
4	C	1	Total	C	N	O	0	0
			29	20	3	6		
4	F	1	Total	C	N	O	0	0
			29	20	3	6		
4	I	1	Total	C	N	O	0	0
			29	20	3	6		
4	L	1	Total	C	N	O	0	0
			29	20	3	6		

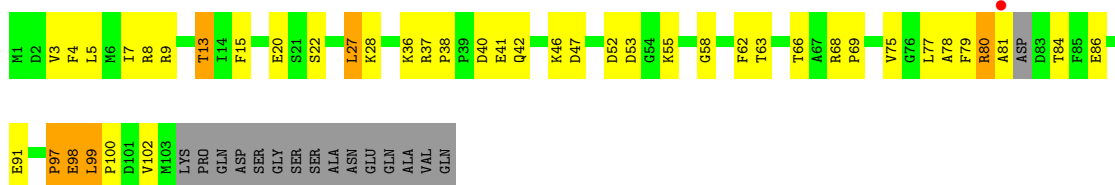
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	1	Total	O	0	0
			1	1		
5	C	2	Total	O	0	0
			2	2		
5	F	3	Total	O	0	0
			3	3		
5	I	2	Total	O	0	0
			2	2		
5	J	1	Total	O	0	0
			1	1		
5	L	4	Total	O	0	0
			4	4		

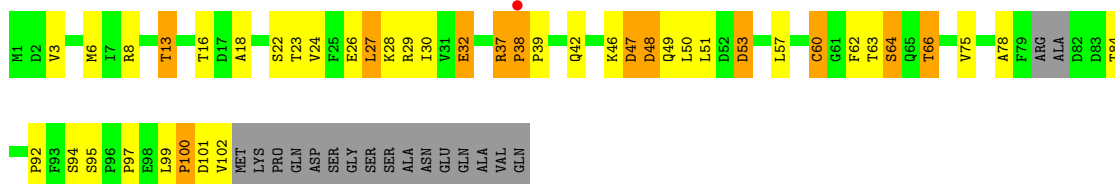
### 3 Residue-property plots [i](#)

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.

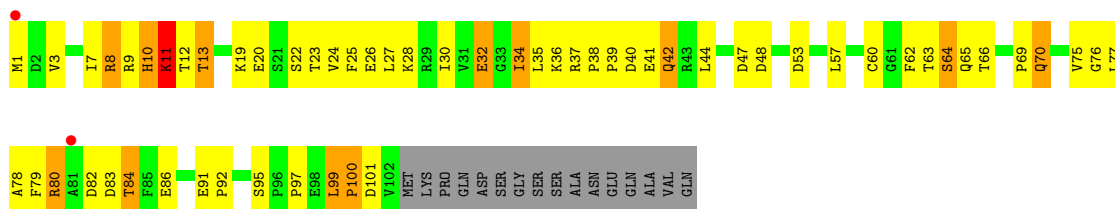
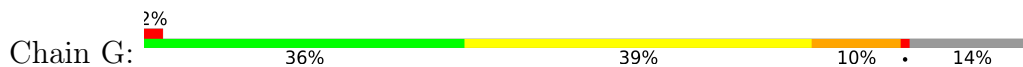
- Molecule 1: TRANSCRIPTION ELONGATION FACTOR B POLYPEPTIDE 2



- Molecule 1: TRANSCRIPTION ELONGATION FACTOR B POLYPEPTIDE 2



- Molecule 1: TRANSCRIPTION ELONGATION FACTOR B POLYPEPTIDE 2

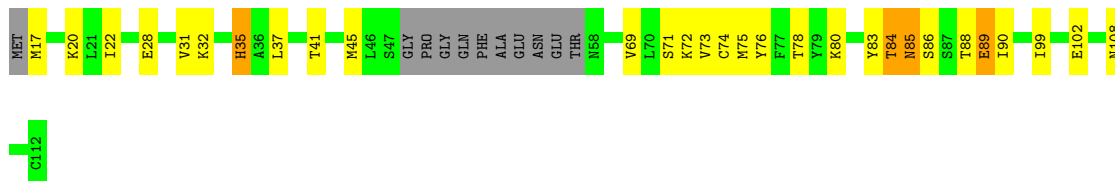


- Molecule 1: TRANSCRIPTION ELONGATION FACTOR B POLYPEPTIDE 2





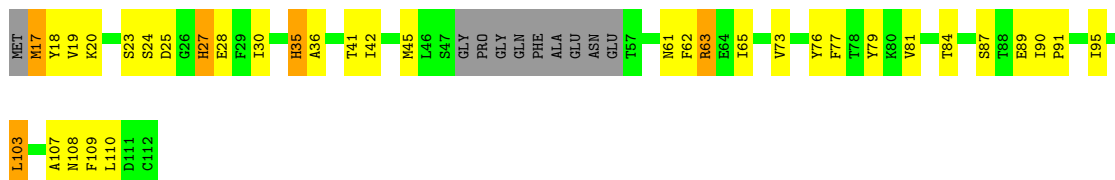
• Molecule 2: TRANSCRIPTION ELONGATION FACTOR B POLYPEPTIDE 1



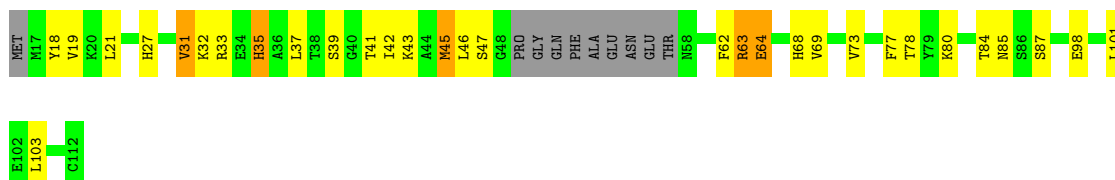
• Molecule 2: TRANSCRIPTION ELONGATION FACTOR B POLYPEPTIDE 1



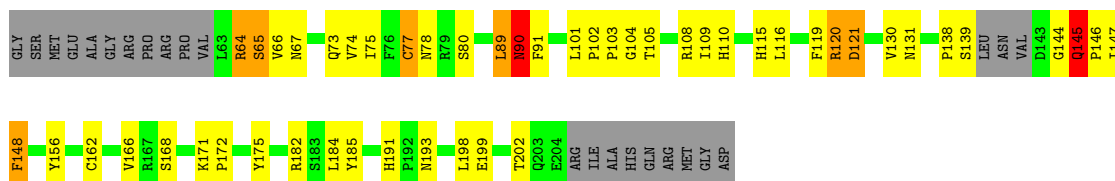
• Molecule 2: TRANSCRIPTION ELONGATION FACTOR B POLYPEPTIDE 1



• Molecule 2: TRANSCRIPTION ELONGATION FACTOR B POLYPEPTIDE 1



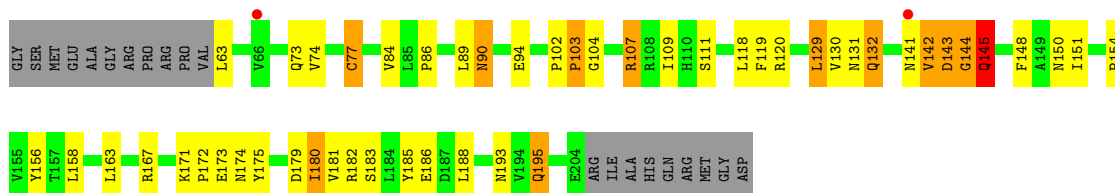
• Molecule 3: VON HIPPEL-LINDAU DISEASE TUMOR SUPPRESSOR





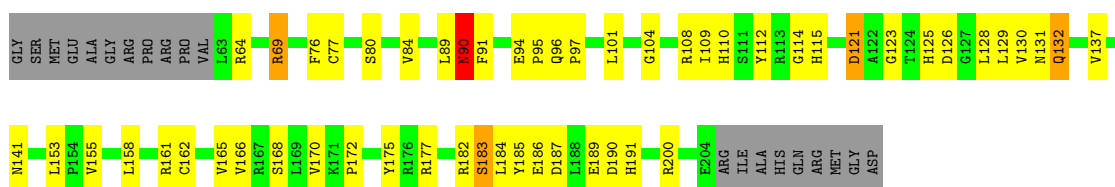
- Molecule 3: VON HIPPEL-LINDAU DISEASE TUMOR SUPPRESSOR

Chain F: 



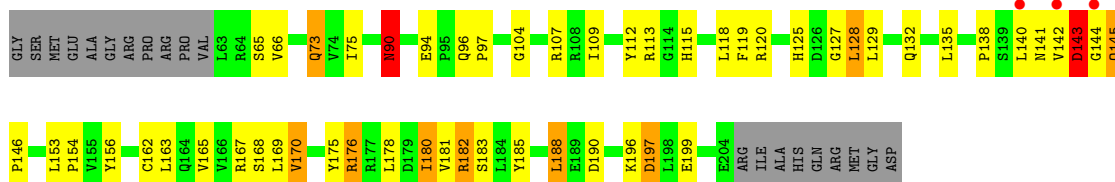
- Molecule 3: VON HIPPEL-LINDAU DISEASE TUMOR SUPPRESSOR

Chain I: 



- Molecule 3: VON HIPPEL-LINDAU DISEASE TUMOR SUPPRESSOR

Chain L: 



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 41 2 2	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	94.08Å 94.08Å 366.49Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	47.04 – 2.79 47.04 – 2.79	Depositor EDS
% Data completeness (in resolution range)	100.0 (47.04-2.79) 99.9 (47.04-2.79)	Depositor EDS
$R_{merge}$	0.14	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.68 (at 2.77Å)	Xtrriage
Refinement program	REFMAC 5.5.0109	Depositor
R, $R_{free}$	0.224 , 0.309 0.220 , 0.303	Depositor DCC
$R_{free}$ test set	2115 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	47.0	Xtrriage
Anisotropy	0.115	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.30 , 40.8	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.45$ , $\langle L^2 \rangle = 0.27$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
$F_o, F_c$ correlation	0.93	EDS
Total number of atoms	10408	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	40.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 29.20 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 1.6151e-03. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

<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: ZTD

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	0.95	0/786	1.08	0/1064
1	D	0.91	1/752 (0.1%)	0.97	2/1023 (0.2%)
1	G	0.94	1/791 (0.1%)	1.02	3/1073 (0.3%)
1	J	1.00	0/811	1.07	1/1098 (0.1%)
2	B	0.98	0/691	0.98	0/933
2	E	1.02	0/688	0.95	3/929 (0.3%)
2	H	0.97	0/695	0.94	0/939
2	K	1.04	0/701	1.12	2/945 (0.2%)
3	C	1.01	1/1118 (0.1%)	1.02	2/1532 (0.1%)
3	F	1.01	1/1156 (0.1%)	1.07	2/1581 (0.1%)
3	I	0.94	1/1149 (0.1%)	1.08	5/1573 (0.3%)
3	L	1.07	1/1176 (0.1%)	1.17	6/1606 (0.4%)
All	All	0.99	6/10514 (0.1%)	1.05	26/14296 (0.2%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
3	C	0	3
3	F	0	3
3	I	0	2
3	L	0	1
All	All	0	9

All (6) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	F	77	CYS	CB-SG	6.05	1.92	1.82
3	C	77	CYS	CB-SG	5.99	1.92	1.82

*Continued on next page...*

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	60	CYS	CB-SG	-5.47	1.72	1.81
3	I	162	CYS	CB-SG	-5.19	1.73	1.81
1	D	60	CYS	CB-SG	-5.14	1.73	1.81
3	L	199	GLU	CG-CD	5.13	1.59	1.51

All (26) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	L	153	LEU	CB-CG-CD1	-7.57	98.13	111.00
3	I	153	LEU	CA-CB-CG	7.37	132.25	115.30
3	F	118	LEU	CB-CG-CD2	-7.31	98.58	111.00
3	I	161	ARG	NE-CZ-NH2	-6.62	116.99	120.30
3	C	90	ASN	N-CA-CB	-6.31	99.25	110.60
3	L	135	LEU	CB-CG-CD1	-6.15	100.55	111.00
3	L	153	LEU	CA-CB-CG	6.13	129.39	115.30
1	D	27	LEU	CA-CB-CG	6.08	129.28	115.30
3	L	167	ARG	NE-CZ-NH2	6.07	123.34	120.30
2	E	110	LEU	CB-CG-CD1	-6.03	100.74	111.00
2	K	31	VAL	CB-CA-C	-6.01	99.98	111.40
3	I	108	ARG	NE-CZ-NH1	5.98	123.29	120.30
3	L	197	ASP	CB-CG-OD1	5.98	123.68	118.30
1	G	8	ARG	NE-CZ-NH2	-5.95	117.33	120.30
3	C	121	ASP	CB-CG-OD1	5.81	123.53	118.30
1	G	99	LEU	C-N-CD	-5.74	107.97	120.60
3	L	128	LEU	CB-CG-CD2	-5.69	101.33	111.00
2	K	45	MET	CG-SD-CE	5.67	109.28	100.20
1	D	50	LEU	CA-CB-CG	5.31	127.51	115.30
2	E	70	LEU	CA-CB-CG	5.29	127.48	115.30
3	F	129	LEU	CB-CG-CD2	5.22	119.88	111.00
2	E	82	ARG	NE-CZ-NH1	5.20	122.90	120.30
1	J	103	MET	CG-SD-CE	5.16	108.45	100.20
3	I	90	ASN	N-CA-CB	-5.13	101.37	110.60
3	I	153	LEU	CB-CG-CD1	-5.12	102.29	111.00
1	G	99	LEU	C-N-CA	5.01	143.05	122.00

There are no chirality outliers.

All (9) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
3	C	104	GLY	Peptide
3	C	145	GLN	Peptide
3	C	89	LEU	Peptide

Continued on next page...

*Continued from previous page...*

Mol	Chain	Res	Type	Group
3	F	144	GLY	Peptide
3	F	145	GLN	Peptide
3	F	89	LEU	Peptide
3	I	104	GLY	Peptide
3	I	89	LEU	Peptide
3	L	104	GLY	Peptide

## 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	772	0	752	29	0
1	D	738	0	692	23	0
1	G	775	0	749	50	0
1	J	795	0	780	37	0
2	B	677	0	670	19	0
2	E	674	0	660	12	0
2	H	681	0	671	33	0
2	K	687	0	684	29	0
3	C	1089	0	1034	45	0
3	F	1126	0	1090	30	0
3	I	1119	0	1079	44	0
3	L	1146	0	1126	48	0
4	C	29	0	23	1	0
4	F	29	0	23	1	0
4	I	29	0	23	5	0
4	L	29	0	23	4	0
5	A	1	0	0	0	0
5	C	2	0	0	0	0
5	F	3	0	0	0	0
5	I	2	0	0	0	0
5	J	1	0	0	0	0
5	L	4	0	0	0	0
All	All	10408	0	10079	374	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 18.

All (374) 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:70:GLN:NE2	1:G:70:GLN:H	1.50	1.10
1:A:40:ASP:O	1:A:41:GLU:HB2	1.46	1.06
3:F:104:GLY:HA3	2:H:63:ARG:HD3	1.43	1.00
2:K:35:HIS:HD2	2:K:78:THR:HG22	1.27	0.97
3:C:199:GLU:HA	3:C:202:THR:HG22	1.43	0.96
1:A:8:ARG:HG2	1:A:13:THR:HG23	1.44	0.95
1:D:23:THR:H	1:D:26:GLU:HG3	1.33	0.94
1:J:9:ARG:NH1	1:J:10:HIS:ND1	2.17	0.93
2:K:35:HIS:CD2	2:K:78:THR:HG22	2.04	0.93
3:I:69:ARG:HG3	3:I:69:ARG:HH11	1.35	0.92
2:K:63:ARG:HH11	2:K:63:ARG:HB2	1.35	0.91
1:D:47:ASP:O	1:D:49:GLN:N	2.04	0.90
3:C:182:ARG:HA	3:C:185:TYR:CD2	2.07	0.90
1:D:100:PRO:O	1:D:102:VAL:N	2.05	0.89
3:C:120:ARG:HG2	3:C:120:ARG:HH11	1.37	0.89
2:B:35:HIS:HD2	2:B:78:THR:HG22	1.39	0.88
3:I:109:ILE:HD12	4:I:1205:ZTD:CAG	2.05	0.86
1:G:82:ASP:O	1:G:84:THR:N	2.09	0.85
2:H:20:LYS:HD3	2:H:28:GLU:OE1	1.77	0.84
3:L:182:ARG:HG2	3:L:182:ARG:HH11	1.42	0.84
1:G:70:GLN:H	1:G:70:GLN:HE21	1.25	0.82
3:I:170:VAL:HG13	3:I:175:TYR:CE1	2.14	0.82
3:C:182:ARG:HA	3:C:185:TYR:HD2	1.43	0.82
2:B:69:VAL:HG21	2:B:102:GLU:HB3	1.61	0.81
3:L:145:GLN:CB	3:L:146:PRO:HD3	2.12	0.80
3:L:73:GLN:H	3:L:141:ASN:ND2	1.83	0.77
1:J:19:LYS:O	1:J:22:SER:HB3	1.86	0.76
2:B:20:LYS:HD3	2:B:28:GLU:HG2	1.68	0.76
1:G:19:LYS:O	1:G:57:LEU:HD12	1.86	0.76
2:K:80:LYS:O	2:K:84:THR:HG23	1.86	0.75
3:L:163:LEU:HD23	3:L:188:LEU:HD23	1.68	0.73
3:I:69:ARG:HG3	3:I:69:ARG:NH1	2.03	0.73
1:G:28:LYS:NZ	1:G:53:ASP:OD1	2.23	0.72
1:D:51:LEU:HD22	1:D:60:CYS:SG	2.29	0.72
1:D:28:LYS:HE2	1:D:42:GLN:O	1.90	0.72
3:C:75:ILE:CD1	3:C:146:PRO:CB	2.68	0.71
1:J:9:ARG:HE	1:J:79:PHE:HD2	1.34	0.71
1:A:9:ARG:HG3	1:A:77:LEU:O	1.90	0.70
3:L:73:GLN:H	3:L:141:ASN:HD22	1.38	0.70
3:C:75:ILE:CD1	3:C:146:PRO:HB2	2.23	0.69
3:L:142:VAL:O	3:L:143:ASP:HB3	1.92	0.69

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:172:PRO:HA	3:I:175:TYR:CE1	2.28	0.69
1:G:47:ASP:O	1:G:48:ASP:HB2	1.93	0.69
3:I:109:ILE:HD12	4:I:1205:ZTD:HAG	1.74	0.68
1:J:51:LEU:HD22	1:J:60:CYS:SG	2.33	0.68
3:L:120:ARG:HD2	3:L:125:HIS:O	1.94	0.67
2:B:84:THR:O	2:B:85:ASN:HB2	1.95	0.67
2:K:63:ARG:HH11	2:K:63:ARG:CB	2.07	0.67
1:A:8:ARG:CG	1:A:13:THR:HG23	2.23	0.67
3:L:145:GLN:HB2	3:L:146:PRO:HD3	1.77	0.67
2:K:39:SER:HB3	2:K:42:ILE:HB	1.75	0.67
3:L:109:ILE:C	3:L:109:ILE:HD12	2.14	0.67
3:C:120:ARG:HG2	3:C:120:ARG:NH1	2.03	0.66
1:G:70:GLN:NE2	1:G:70:GLN:N	2.34	0.66
2:B:35:HIS:CD2	2:B:78:THR:HG22	2.28	0.66
3:C:145:GLN:CB	3:C:146:PRO:HD3	2.26	0.66
2:E:69:VAL:HG21	2:E:102:GLU:HB3	1.77	0.66
1:J:3:VAL:HG13	1:J:67:ALA:HB3	1.78	0.65
1:J:4:PHE:CE2	1:J:69:PRO:HG3	2.31	0.65
3:C:199:GLU:HA	3:C:202:THR:CG2	2.24	0.65
2:E:83:TYR:HB3	2:E:90:ILE:HG12	1.79	0.65
1:G:64:SER:HB2	1:G:65:GLN:NE2	2.13	0.64
1:A:97:PRO:O	1:A:98:GLU:HB3	1.96	0.64
1:A:9:ARG:HB2	1:A:77:LEU:HB3	1.79	0.64
2:H:108:ASN:HD22	3:I:184:LEU:HD21	1.61	0.64
3:F:90:ASN:HB2	3:F:94:GLU:O	1.98	0.63
1:G:70:GLN:HE21	1:G:70:GLN:N	1.94	0.63
3:L:145:GLN:HB3	3:L:146:PRO:HD3	1.80	0.62
3:L:165:VAL:O	3:L:169:LEU:HD12	1.98	0.62
3:C:73:GLN:NE2	3:C:110:HIS:CD2	2.68	0.62
1:J:98:GLU:O	1:J:99:LEU:HB3	2.00	0.62
1:G:100:PRO:HD2	1:G:101:ASP:H	1.65	0.61
1:A:52:ASP:HB2	1:A:55:LYS:HG3	1.82	0.61
3:I:131:ASN:C	3:I:132:GLN:HG2	2.21	0.61
3:L:182:ARG:HH11	3:L:182:ARG:CG	2.11	0.61
2:H:62:PHE:CG	2:H:65:ILE:HD12	2.36	0.61
1:A:40:ASP:O	1:A:41:GLU:CB	2.29	0.60
2:H:17:MET:HG3	2:H:18:TYR:CE1	2.37	0.60
1:A:7:ILE:HD11	1:A:27:LEU:HD21	1.83	0.60
3:C:64:ARG:HD3	3:C:91:PHE:O	2.01	0.60
3:F:86:PRO:HB3	3:F:119:PHE:CE2	2.36	0.60
1:G:10:HIS:O	1:G:12:THR:N	2.35	0.60

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:108:ASN:ND2	3:I:184:LEU:HD21	2.16	0.60
3:F:148:PHE:CZ	2:H:45:MET:HA	2.37	0.59
3:F:163:LEU:O	3:F:167:ARG:HG3	2.03	0.59
2:H:23:SER:OG	2:H:25:ASP:OD1	2.21	0.59
1:D:92:PRO:O	2:E:27:HIS:HE1	1.85	0.59
3:L:73:GLN:N	3:L:141:ASN:HD22	2.00	0.59
3:L:113:ARG:HE	3:L:140:LEU:HB2	1.67	0.59
1:G:69:PRO:HD2	1:G:70:GLN:HE22	1.67	0.58
1:D:63:THR:H	1:D:66:THR:HG22	1.67	0.58
3:I:114:GLY:HA2	3:I:137:VAL:HG12	1.85	0.58
1:A:7:ILE:HD11	1:A:27:LEU:CD2	2.33	0.58
2:K:35:HIS:HB3	2:K:77:PHE:HB3	1.85	0.58
2:K:64:GLU:OE1	2:K:64:GLU:HA	2.04	0.58
3:I:69:ARG:HH11	3:I:69:ARG:CG	2.14	0.58
2:E:33:ARG:O	2:E:37:LEU:HG	2.04	0.58
1:G:30:ILE:O	1:G:34:ILE:HD12	2.05	0.57
2:H:95:ILE:HB	3:I:165:VAL:HG21	1.85	0.57
3:F:182:ARG:HA	3:F:185:TYR:CD2	2.39	0.57
3:C:65:SER:HB2	3:C:89:LEU:O	2.05	0.57
3:F:163:LEU:HD22	3:F:188:LEU:HD23	1.86	0.57
3:L:73:GLN:N	3:L:141:ASN:ND2	2.53	0.57
2:K:19:VAL:HG13	2:K:33:ARG:HA	1.86	0.57
2:B:71:SER:O	2:B:75:MET:HG3	2.03	0.56
1:G:34:ILE:HG22	1:G:35:LEU:N	2.19	0.56
3:L:181:VAL:HG12	3:L:183:SER:H	1.69	0.56
3:F:195:GLN:HA	3:F:195:GLN:OE1	2.05	0.56
1:G:64:SER:HB2	1:G:65:GLN:HE22	1.69	0.56
3:I:109:ILE:HG23	4:I:1205:ZTD:HAG	1.88	0.56
3:C:75:ILE:HD12	3:C:146:PRO:CB	2.36	0.56
3:L:109:ILE:HD12	3:L:109:ILE:O	2.06	0.56
1:D:22:SER:OG	1:D:57:LEU:HD12	2.06	0.56
2:H:107:ALA:HB2	3:I:158:LEU:HG	1.88	0.55
1:G:32:GLU:OE1	1:G:38:PRO:HA	2.07	0.54
2:E:45:MET:SD	2:E:60:VAL:HG11	2.47	0.54
1:J:101:ASP:O	1:J:103:MET:N	2.40	0.54
3:I:121:ASP:OD1	3:I:123:GLY:N	2.40	0.54
3:L:107:ARG:NH1	4:L:1205:ZTD:HAI2	2.22	0.54
1:J:98:GLU:O	1:J:99:LEU:CB	2.55	0.54
1:J:8:ARG:HG2	1:J:13:THR:HB	1.90	0.54
1:G:7:ILE:O	1:G:13:THR:HA	2.08	0.54
3:L:163:LEU:CD2	3:L:188:LEU:HD23	2.36	0.54

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:74:VAL:HG12	3:C:75:ILE:N	2.23	0.53
2:H:76:TYR:C	2:H:76:TYR:CD1	2.81	0.53
3:F:84:VAL:HG21	3:F:151:ILE:HG21	1.91	0.53
1:G:22:SER:HB2	1:G:26:GLU:OE1	2.08	0.53
3:C:109:ILE:HD12	4:C:1205:ZTD:HAG	1.90	0.53
1:G:11:LYS:HA	2:H:27:HIS:CD2	2.43	0.53
3:I:172:PRO:HA	3:I:175:TYR:CD1	2.44	0.53
3:C:67:ASN:HB2	3:C:91:PHE:CE1	2.44	0.53
3:F:130:VAL:HA	3:F:150:ASN:O	2.09	0.53
3:L:143:ASP:O	3:L:145:GLN:N	2.42	0.53
3:F:179:ASP:O	3:F:180:ILE:HG23	2.09	0.53
2:H:62:PHE:HB3	2:H:65:ILE:HD12	1.90	0.53
2:H:35:HIS:CE1	2:H:81:VAL:HG11	2.44	0.53
2:H:109:PHE:HD2	2:H:110:LEU:HD23	1.73	0.53
3:C:75:ILE:HD13	3:C:146:PRO:HB2	1.91	0.53
3:L:143:ASP:C	3:L:145:GLN:H	2.11	0.53
3:L:145:GLN:CB	3:L:146:PRO:CD	2.85	0.53
1:G:32:GLU:HB2	1:G:37:ARG:O	2.08	0.53
3:F:129:LEU:HD12	3:F:154:PRO:HA	1.91	0.52
3:C:162:CYS:O	3:C:166:VAL:HG23	2.09	0.52
3:C:75:ILE:HD12	3:C:146:PRO:HB3	1.92	0.52
2:E:66:PRO:HG2	2:E:69:VAL:HG23	1.90	0.52
3:I:166:VAL:O	3:I:170:VAL:HG12	2.10	0.52
1:J:101:ASP:C	1:J:103:MET:H	2.13	0.52
3:I:200:ARG:NH1	3:I:200:ARG:HG2	2.24	0.52
1:J:7:ILE:HD11	1:J:27:LEU:HD22	1.90	0.52
2:K:31:VAL:HG12	2:K:32:LYS:N	2.25	0.52
1:A:46:LYS:O	1:A:47:ASP:C	2.47	0.52
1:J:3:VAL:HG13	1:J:67:ALA:CB	2.39	0.52
2:B:83:TYR:HB3	2:B:90:ILE:HG12	1.91	0.52
1:J:36:LYS:O	1:J:37:ARG:HG2	2.09	0.52
2:K:21:LEU:HD22	2:K:62:PHE:HE2	1.75	0.52
1:J:29:ARG:O	1:J:32:GLU:HG2	2.10	0.52
3:C:172:PRO:HA	3:C:175:TYR:CZ	2.44	0.52
1:J:1:MET:SD	1:J:64:SER:OG	2.65	0.52
1:G:47:ASP:O	1:G:48:ASP:CB	2.58	0.51
1:J:66:THR:HG22	1:J:66:THR:O	2.10	0.51
1:J:47:ASP:O	1:J:48:ASP:HB2	2.10	0.51
1:J:28:LYS:HE3	1:J:42:GLN:O	2.11	0.51
3:F:131:ASN:O	3:F:132:GLN:HB2	2.11	0.50
3:L:107:ARG:HH11	4:L:1205:ZTD:HAI2	1.76	0.50

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:73:VAL:HG12	2:H:77:PHE:CZ	2.46	0.50
3:C:148:PHE:HZ	2:K:45:MET:HG3	1.75	0.50
1:J:25:PHE:O	1:J:28:LYS:HB2	2.11	0.50
3:C:108:ARG:O	3:C:109:ILE:HD13	2.12	0.50
3:L:178:LEU:HB3	3:L:180:ILE:HD13	1.94	0.50
3:I:101:LEU:HD12	3:I:101:LEU:N	2.26	0.50
3:L:182:ARG:HA	3:L:185:TYR:CD2	2.47	0.50
1:J:28:LYS:O	1:J:42:GLN:NE2	2.40	0.50
1:D:29:ARG:O	1:D:32:GLU:HB3	2.12	0.49
1:G:92:PRO:O	2:H:27:HIS:HE1	1.94	0.49
1:J:92:PRO:O	2:K:27:HIS:CE1	2.65	0.49
1:J:92:PRO:O	2:K:27:HIS:HE1	1.95	0.49
3:C:198:LEU:O	3:C:202:THR:HG22	2.13	0.49
3:L:115:HIS:O	3:L:138:PRO:HD2	2.13	0.49
3:L:170:VAL:HG22	3:L:175:TYR:CD1	2.46	0.49
3:C:89:LEU:O	3:C:90:ASN:O	2.30	0.49
1:G:38:PRO:HG2	1:G:41:GLU:HG3	1.93	0.49
3:L:90:ASN:HB2	3:L:94:GLU:O	2.13	0.49
3:C:74:VAL:CG1	3:C:75:ILE:N	2.75	0.49
1:G:66:THR:O	1:G:66:THR:HG22	2.12	0.49
1:G:78:ALA:HB1	1:G:86:GLU:HG3	1.93	0.49
2:H:84:THR:HG23	3:I:155:VAL:HG21	1.94	0.49
3:C:119:PHE:O	3:C:120:ARG:NH1	2.46	0.49
3:L:182:ARG:CG	3:L:182:ARG:NH1	2.76	0.49
2:H:62:PHE:CB	2:H:65:ILE:HD12	2.43	0.49
3:L:143:ASP:C	3:L:145:GLN:N	2.66	0.49
2:B:41:THR:O	2:B:45:MET:HG3	2.12	0.49
3:C:67:ASN:HB2	3:C:91:PHE:CD1	2.48	0.48
3:L:154:PRO:HG2	3:L:156:TYR:CE1	2.48	0.48
1:G:8:ARG:HG2	1:G:13:THR:HB	1.94	0.48
1:G:69:PRO:HD2	1:G:70:GLN:NE2	2.28	0.48
3:I:109:ILE:HD12	4:I:1205:ZTD:CAY	2.44	0.48
3:I:200:ARG:HG2	3:I:200:ARG:HH11	1.78	0.48
1:A:68:ARG:O	1:A:69:PRO:C	2.52	0.48
1:D:46:LYS:O	1:D:47:ASP:O	2.31	0.48
1:G:66:THR:O	1:G:66:THR:CG2	2.61	0.48
1:A:15:PHE:HB2	2:B:31:VAL:HG22	1.96	0.48
2:B:76:TYR:CD1	2:B:76:TYR:C	2.86	0.48
1:J:19:LYS:O	1:J:57:LEU:HD12	2.13	0.48
3:F:107:ARG:O	3:F:109:ILE:HD12	2.12	0.48
3:F:144:GLY:H	3:F:145:GLN:HG3	1.78	0.48

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:140:LEU:HD12	3:L:141:ASN:H	1.79	0.48
1:G:10:HIS:O	1:G:11:LYS:C	2.49	0.47
1:A:40:ASP:OD1	1:A:40:ASP:N	2.48	0.47
1:D:3:VAL:HG22	1:D:18:ALA:O	2.14	0.47
1:G:100:PRO:CD	1:G:101:ASP:H	2.25	0.47
3:I:90:ASN:HB2	3:I:94:GLU:O	2.15	0.47
1:G:70:GLN:HG3	2:H:79:TYR:CD1	2.49	0.47
3:I:170:VAL:HG13	3:I:175:TYR:CD1	2.50	0.47
3:L:112:TYR:O	3:L:113:ARG:C	2.51	0.47
3:I:182:ARG:HA	3:I:185:TYR:HD2	1.79	0.47
3:I:112:TYR:HB2	3:I:115:HIS:CE1	2.49	0.47
1:J:6:MET:N	1:J:73:ALA:O	2.46	0.47
1:J:34:ILE:HD11	2:K:18:TYR:CZ	2.50	0.47
2:K:87:SER:HB3	3:L:132:GLN:NE2	2.30	0.47
3:L:170:VAL:HG22	3:L:175:TYR:HD1	1.79	0.47
3:F:130:VAL:HG13	3:F:130:VAL:O	2.15	0.47
3:F:148:PHE:HZ	2:H:45:MET:HA	1.80	0.47
3:I:189:GLU:O	3:I:191:HIS:N	2.46	0.47
2:K:101:LEU:HD22	3:L:180:ILE:HG21	1.97	0.47
3:L:120:ARG:HD3	3:L:127:GLY:HA2	1.97	0.47
2:B:88:THR:O	2:B:89:GLU:O	2.32	0.47
3:F:181:VAL:HG12	3:F:183:SER:H	1.80	0.47
1:G:77:LEU:HD12	1:G:78:ALA:N	2.30	0.47
3:C:75:ILE:CD1	3:C:146:PRO:HB3	2.43	0.46
1:D:8:ARG:HG2	1:D:13:THR:HG23	1.97	0.46
3:L:112:TYR:CZ	4:L:1205:ZTD:HAA3	2.49	0.46
1:A:38:PRO:O	1:A:40:ASP:O	2.33	0.46
1:A:79:PHE:HB3	1:A:80:ARG:H	1.60	0.46
1:A:36:LYS:HA	1:A:36:LYS:HD3	1.64	0.46
1:D:92:PRO:O	2:E:27:HIS:CE1	2.67	0.46
1:G:9:ARG:HB2	1:G:77:LEU:HB3	1.97	0.46
2:B:31:VAL:CG1	2:B:32:LYS:N	2.78	0.46
3:C:65:SER:OG	3:C:115:HIS:HA	2.15	0.46
1:G:12:THR:C	1:G:13:THR:HG22	2.36	0.46
1:G:70:GLN:H	1:G:70:GLN:CD	2.09	0.46
1:D:100:PRO:C	1:D:102:VAL:H	2.19	0.46
1:J:94:SER:O	2:K:68:HIS:HB3	2.15	0.46
3:C:102:PRO:HB2	3:C:105:THR:HG21	1.97	0.46
3:I:182:ARG:O	3:I:183:SER:C	2.54	0.46
1:G:28:LYS:HE2	1:G:42:GLN:O	2.15	0.45
1:G:23:THR:OG1	1:G:26:GLU:HG3	2.16	0.45

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:119:PHE:O	3:L:128:LEU:HB2	2.17	0.45
2:B:72:LYS:O	2:B:73:VAL:C	2.53	0.45
3:C:78:ASN:HB2	3:C:101:LEU:HD23	1.99	0.45
3:C:198:LEU:HD23	3:C:198:LEU:HA	1.82	0.45
2:B:84:THR:O	2:B:85:ASN:CB	2.63	0.45
3:C:115:HIS:O	3:C:138:PRO:HD2	2.16	0.45
3:C:130:VAL:O	3:C:131:ASN:C	2.54	0.45
1:G:63:THR:O	1:G:64:SER:C	2.54	0.45
2:K:19:VAL:CG1	2:K:33:ARG:HG3	2.46	0.45
2:H:41:THR:O	2:H:45:MET:HB2	2.16	0.45
3:I:131:ASN:O	3:I:132:GLN:CB	2.65	0.45
3:C:184:LEU:HD23	3:C:184:LEU:HA	1.73	0.45
1:D:42:GLN:HA	1:D:78:ALA:O	2.17	0.45
1:J:79:PHE:O	1:J:86:GLU:HG2	2.17	0.45
2:K:43:LYS:O	2:K:43:LYS:HG2	2.16	0.45
1:D:28:LYS:HG2	1:D:42:GLN:HG3	1.99	0.44
2:K:101:LEU:HA	2:K:101:LEU:HD23	1.74	0.44
3:F:132:GLN:HA	3:F:132:GLN:HE21	1.83	0.44
3:I:129:LEU:HD13	3:I:132:GLN:O	2.17	0.44
1:A:3:VAL:CG1	1:A:5:LEU:HD21	2.48	0.44
3:C:172:PRO:HA	3:C:175:TYR:CE1	2.52	0.44
3:I:114:GLY:HA2	3:I:137:VAL:CG1	2.45	0.44
2:K:98:GLU:CD	2:K:98:GLU:H	2.20	0.44
2:B:88:THR:O	2:B:89:GLU:C	2.56	0.44
1:D:62:PHE:CZ	1:D:75:VAL:HG22	2.52	0.44
1:J:52:ASP:HB2	1:J:55:LYS:HG3	1.99	0.44
2:K:21:LEU:HD22	2:K:62:PHE:CE2	2.52	0.44
1:G:62:PHE:CZ	1:G:75:VAL:HG22	2.52	0.44
1:G:25:PHE:C	1:G:27:LEU:H	2.20	0.44
1:G:41:GLU:O	1:G:79:PHE:HA	2.17	0.44
3:F:129:LEU:HD22	3:F:132:GLN:O	2.17	0.44
1:A:4:PHE:CD2	1:A:69:PRO:HD3	2.53	0.44
2:B:37:LEU:HD23	2:B:37:LEU:HA	1.82	0.44
2:B:108:ASN:ND2	3:C:184:LEU:HD21	2.32	0.44
3:C:89:LEU:HD12	3:C:116:LEU:HD23	1.99	0.44
3:F:131:ASN:O	3:F:132:GLN:CB	2.66	0.44
1:D:37:ARG:HA	1:D:38:PRO:HD2	1.76	0.43
2:E:103:LEU:HD13	3:F:158:LEU:HD11	1.99	0.43
3:F:111:SER:OG	4:F:1205:ZTD:OD1	2.19	0.43
3:F:142:VAL:O	3:F:143:ASP:C	2.55	0.43
3:L:75:ILE:HD12	3:L:146:PRO:HB2	1.99	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F:163:LEU:HD23	3:F:163:LEU:HA	1.75	0.43
2:H:30:ILE:N	2:H:30:ILE:HD12	2.33	0.43
2:H:73:VAL:CG1	2:H:77:PHE:CZ	3.01	0.43
3:I:84:VAL:HG22	3:I:128:LEU:HD13	2.00	0.43
3:I:109:ILE:HD13	3:I:109:ILE:HA	1.80	0.43
3:I:125:HIS:O	3:I:126:ASP:C	2.56	0.43
1:A:8:ARG:NH2	1:A:91:GLU:O	2.51	0.43
3:F:141:ASN:HB3	3:F:145:GLN:HA	2.01	0.43
3:I:94:GLU:HA	3:I:95:PRO:HD2	1.86	0.43
1:A:98:GLU:HA	1:A:99:LEU:HA	1.68	0.43
1:A:62:PHE:CZ	1:A:75:VAL:HG22	2.53	0.43
1:G:9:ARG:O	1:G:10:HIS:O	2.37	0.43
2:H:73:VAL:HG11	2:H:110:LEU:CD1	2.49	0.43
1:J:41:GLU:OE2	1:J:81:ALA:HB2	2.19	0.43
1:G:44:LEU:HA	1:G:76:GLY:O	2.19	0.43
3:C:171:LYS:HA	3:C:172:PRO:HD3	1.86	0.43
1:G:32:GLU:OE1	1:G:39:PRO:HD2	2.19	0.43
1:A:42:GLN:HA	1:A:78:ALA:O	2.19	0.42
2:B:74:CYS:O	2:B:78:THR:HG23	2.19	0.42
3:C:120:ARG:HH11	3:C:120:ARG:CG	2.17	0.42
1:D:29:ARG:NH1	1:D:39:PRO:HG2	2.34	0.42
3:I:96:GLN:HA	3:I:97:PRO:HD2	1.82	0.42
3:C:78:ASN:ND2	3:C:103:PRO:HA	2.33	0.42
1:D:24:VAL:HB	1:D:53:ASP:O	2.19	0.42
1:J:12:THR:C	1:J:13:THR:HG22	2.40	0.42
1:A:20:GLU:HG2	1:A:58:GLY:HA3	2.01	0.42
1:D:57:LEU:HA	1:D:57:LEU:HD23	1.78	0.42
2:K:37:LEU:HD22	2:K:43:LYS:HG3	2.01	0.42
3:C:139:SER:OG	3:C:147:ILE:HD13	2.19	0.42
2:H:90:ILE:HA	2:H:91:PRO:HD3	1.72	0.42
3:L:118:LEU:HD12	3:L:118:LEU:C	2.40	0.42
3:L:176:ARG:HH21	3:L:185:TYR:HB3	1.85	0.42
1:A:63:THR:H	1:A:66:THR:HB	1.85	0.42
1:A:28:LYS:HE3	1:A:42:GLN:O	2.20	0.42
1:A:41:GLU:HG3	1:A:81:ALA:HA	2.02	0.42
1:G:27:LEU:HD22	1:G:57:LEU:HD21	2.02	0.42
1:G:100:PRO:CD	1:G:101:ASP:N	2.83	0.42
1:J:82:ASP:O	1:J:84:THR:N	2.53	0.42
3:L:129:LEU:HD11	3:L:154:PRO:HB3	2.02	0.42
1:A:98:GLU:O	1:A:98:GLU:HG3	2.20	0.42
1:D:63:THR:O	1:D:64:SER:C	2.59	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:17:MET:HG3	2:H:18:TYR:CD1	2.54	0.42
2:H:18:TYR:C	2:H:19:VAL:CG1	2.88	0.42
1:J:52:ASP:HB2	1:J:55:LYS:CG	2.49	0.42
3:L:181:VAL:CG1	3:L:182:ARG:N	2.83	0.42
2:E:109:PHE:CD2	2:E:110:LEU:HD23	2.55	0.41
3:F:73:GLN:H	3:F:141:ASN:HD21	1.68	0.41
2:H:61:ASN:HB3	2:H:63:ARG:NH1	2.35	0.41
3:I:109:ILE:HG23	4:I:1205:ZTD:CAG	2.48	0.41
2:K:19:VAL:HG12	2:K:33:ARG:HG3	2.02	0.41
2:K:46:LEU:O	2:K:47:SER:CB	2.68	0.41
1:A:41:GLU:HA	1:A:81:ALA:HA	2.02	0.41
3:F:102:PRO:CB	3:F:103:PRO:HD2	2.50	0.41
1:G:32:GLU:O	1:G:36:LYS:HA	2.20	0.41
1:G:77:LEU:HD12	1:G:78:ALA:H	1.85	0.41
3:I:185:TYR:O	3:I:186:GLU:C	2.59	0.41
1:J:32:GLU:C	1:J:34:ILE:N	2.74	0.41
2:E:76:TYR:HA	2:E:93:PHE:CE1	2.56	0.41
3:I:130:VAL:O	3:I:130:VAL:HG13	2.21	0.41
1:D:26:GLU:O	1:D:29:ARG:HB2	2.21	0.41
3:F:172:PRO:HA	3:F:175:TYR:CZ	2.55	0.41
1:G:8:ARG:NH2	1:G:91:GLU:O	2.52	0.41
2:H:109:PHE:CD2	2:H:110:LEU:HD23	2.55	0.41
3:L:107:ARG:HG3	3:L:109:ILE:HG23	2.03	0.41
2:E:73:VAL:O	2:E:76:TYR:HB3	2.21	0.41
1:G:79:PHE:HB3	1:G:80:ARG:H	1.77	0.41
3:I:76:PHE:CD2	3:I:109:ILE:HG13	2.56	0.41
3:I:90:ASN:OD1	3:I:91:PHE:N	2.53	0.41
2:H:36:ALA:HB1	2:H:42:ILE:HG21	2.03	0.41
1:J:32:GLU:HG3	1:J:33:GLY:N	2.34	0.41
3:C:75:ILE:HD12	3:C:146:PRO:HB2	2.00	0.41
3:F:154:PRO:HD2	3:F:156:TYR:CZ	2.55	0.41
3:I:84:VAL:HG22	3:I:128:LEU:CD1	2.51	0.41
3:I:184:LEU:HA	3:I:187:ASP:HB2	2.02	0.41
2:B:99:ILE:HG21	2:B:99:ILE:HD13	1.82	0.40
2:H:62:PHE:CD1	2:H:65:ILE:HD12	2.56	0.40
1:J:79:PHE:HB3	1:J:80:ARG:H	1.60	0.40
2:K:69:VAL:O	2:K:73:VAL:HG23	2.21	0.40
2:K:84:THR:O	2:K:85:ASN:C	2.59	0.40
2:K:103:LEU:HB3	3:L:162:CYS:SG	2.61	0.40
3:L:112:TYR:OH	4:L:1205:ZTD:HAA3	2.21	0.40
3:C:202:THR:O	3:C:202:THR:HG23	2.20	0.40

*Continued on next page...*

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:84:THR:O	2:E:85:ASN:HB2	2.21	0.40
3:L:96:GLN:HA	3:L:97:PRO:HD2	1.75	0.40
2:H:103:LEU:HD22	3:I:158:LEU:HD21	2.02	0.40
1:J:101:ASP:C	1:J:103:MET:N	2.74	0.40
3:C:145:GLN:CB	3:C:146:PRO:CD	2.96	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	98/118 (83%)	82 (84%)	7 (7%)	9 (9%)	1	1
1	D	96/118 (81%)	77 (80%)	9 (9%)	10 (10%)	0	1
1	G	100/118 (85%)	76 (76%)	14 (14%)	10 (10%)	0	1
1	J	102/118 (86%)	86 (84%)	11 (11%)	5 (5%)	2	7
2	B	82/97 (84%)	76 (93%)	4 (5%)	2 (2%)	6	20
2	E	83/97 (86%)	72 (87%)	11 (13%)	0	100	100
2	H	83/97 (86%)	71 (86%)	11 (13%)	1 (1%)	13	39
2	K	83/97 (86%)	73 (88%)	9 (11%)	1 (1%)	13	39
3	C	135/162 (83%)	116 (86%)	14 (10%)	5 (4%)	3	11
3	F	140/162 (86%)	121 (86%)	14 (10%)	5 (4%)	3	11
3	I	140/162 (86%)	122 (87%)	14 (10%)	4 (3%)	4	15
3	L	140/162 (86%)	123 (88%)	12 (9%)	5 (4%)	3	11
All	All	1282/1508 (85%)	1095 (85%)	130 (10%)	57 (4%)	2	8

All (57) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	53	ASP
1	A	80	ARG
2	B	89	GLU
3	C	90	ASN
1	D	47	ASP
1	D	48	ASP
1	D	53	ASP
1	D	99	LEU
1	D	101	ASP
3	F	90	ASN
3	F	142	VAL
3	F	145	GLN
1	G	83	ASP
1	G	84	THR
3	I	90	ASN
3	I	190	ASP
1	J	83	ASP
1	J	84	THR
1	J	99	LEU
1	J	102	VAL
3	L	90	ASN
3	L	143	ASP
3	L	145	GLN
3	L	190	ASP
1	A	84	THR
2	B	85	ASN
3	C	145	GLN
1	D	97	PRO
1	D	100	PRO
1	G	10	HIS
1	G	34	ILE
1	G	80	ARG
1	G	100	PRO
2	H	89	GLU
3	I	177	ARG
1	A	98	GLU
1	D	94	SER
3	F	103	PRO
3	F	143	ASP
1	G	99	LEU
1	J	10	HIS
1	A	100	PRO
3	C	191	HIS

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type
1	D	38	PRO
1	G	11	LYS
3	I	132	GLN
1	A	97	PRO
3	L	144	GLY
1	A	86	GLU
1	A	99	LEU
3	C	144	GLY
3	C	156	TYR
1	D	84	THR
2	K	41	THR
1	G	24	VAL
1	G	97	PRO
1	A	102	VAL

### 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	81/103 (79%)	77 (95%)	4 (5%)	25 57
1	D	75/103 (73%)	64 (85%)	11 (15%)	3 9
1	G	81/103 (79%)	70 (86%)	11 (14%)	3 11
1	J	84/103 (82%)	75 (89%)	9 (11%)	6 20
2	B	75/86 (87%)	69 (92%)	6 (8%)	12 34
2	E	73/86 (85%)	64 (88%)	9 (12%)	4 15
2	H	75/86 (87%)	68 (91%)	7 (9%)	9 26
2	K	76/86 (88%)	73 (96%)	3 (4%)	32 66
3	C	118/148 (80%)	108 (92%)	10 (8%)	10 31
3	F	123/148 (83%)	110 (89%)	13 (11%)	6 20
3	I	121/148 (82%)	112 (93%)	9 (7%)	13 37
3	L	128/148 (86%)	115 (90%)	13 (10%)	7 22
All	All	1110/1348 (82%)	1005 (90%)	105 (10%)	8 25

All (105) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	13	THR
1	A	22	SER
1	A	27	LEU
1	A	37	ARG
2	B	17	MET
2	B	22	ILE
2	B	35	HIS
2	B	80	LYS
2	B	84	THR
2	B	86	SER
3	C	64	ARG
3	C	65	SER
3	C	66	VAL
3	C	77	CYS
3	C	80	SER
3	C	120	ARG
3	C	121	ASP
3	C	148	PHE
3	C	168	SER
3	C	193	ASN
1	D	6	MET
1	D	13	THR
1	D	16	THR
1	D	27	LEU
1	D	30	ILE
1	D	32	GLU
1	D	37	ARG
1	D	48	ASP
1	D	64	SER
1	D	66	THR
1	D	95	SER
2	E	17	MET
2	E	31	VAL
2	E	35	HIS
2	E	61	ASN
2	E	70	LEU
2	E	84	THR
2	E	101	LEU
2	E	103	LEU
2	E	105	MET
3	F	63	LEU
3	F	74	VAL

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	F	77	CYS
3	F	107	ARG
3	F	120	ARG
3	F	132	GLN
3	F	171	LYS
3	F	173	GLU
3	F	174	ASN
3	F	180	ILE
3	F	186	GLU
3	F	193	ASN
3	F	195	GLN
1	G	1	MET
1	G	3	VAL
1	G	11	LYS
1	G	13	THR
1	G	20	GLU
1	G	32	GLU
1	G	40	ASP
1	G	42	GLN
1	G	64	SER
1	G	70	GLN
1	G	95	SER
2	H	17	MET
2	H	24	SER
2	H	27	HIS
2	H	35	HIS
2	H	63	ARG
2	H	87	SER
2	H	103	LEU
3	I	64	ARG
3	I	69	ARG
3	I	77	CYS
3	I	80	SER
3	I	110	HIS
3	I	121	ASP
3	I	141	ASN
3	I	168	SER
3	I	183	SER
1	J	9	ARG
1	J	13	THR
1	J	27	LEU
1	J	30	ILE

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	J	32	GLU
1	J	42	GLN
1	J	47	ASP
1	J	50	LEU
1	J	89	CYS
2	K	35	HIS
2	K	63	ARG
2	K	64	GLU
3	L	65	SER
3	L	66	VAL
3	L	73	GLN
3	L	90	ASN
3	L	143	ASP
3	L	168	SER
3	L	170	VAL
3	L	176	ARG
3	L	180	ILE
3	L	182	ARG
3	L	188	LEU
3	L	196	LYS
3	L	197	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (18) such sidechains are listed below:

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	B	35	HIS
3	C	73	GLN
3	C	96	GLN
3	C	110	HIS
2	E	27	HIS
3	F	132	GLN
3	F	141	ASN
3	F	174	ASN
1	G	49	GLN
1	G	65	GLN
1	G	70	GLN
2	H	27	HIS
2	H	35	HIS
2	H	108	ASN
2	K	27	HIS
2	K	35	HIS
3	L	96	GLN

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
3	L	141	ASN

### 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](#)

4 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
4	ZTD	I	1205	-	29,31,31	1.40	5 (17%)	37,43,43	1.84	10 (27%)
4	ZTD	L	1205	-	29,31,31	1.30	2 (6%)	37,43,43	1.73	7 (18%)
4	ZTD	C	1205	-	29,31,31	2.22	5 (17%)	37,43,43	1.94	8 (21%)
4	ZTD	F	1205	-	29,31,31	2.11	8 (27%)	37,43,43	2.26	7 (18%)

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	ZTD	I	1205	-	-	2/21/35/35	0/3/3/3
4	ZTD	L	1205	-	-	2/21/35/35	0/3/3/3
4	ZTD	C	1205	-	-	2/21/35/35	0/3/3/3
4	ZTD	F	1205	-	-	2/21/35/35	0/3/3/3

All (20) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	C	1205	ZTD	CAM-CAZ	7.46	1.57	1.51
4	F	1205	ZTD	CAM-CAZ	6.51	1.56	1.51
4	C	1205	ZTD	CAM-CAU	5.44	1.58	1.52
4	C	1205	ZTD	CAK-CAZ	-4.65	1.33	1.39
4	L	1205	ZTD	CAK-CAZ	-4.53	1.33	1.39
4	F	1205	ZTD	CAK-CAZ	-3.74	1.34	1.39
4	F	1205	ZTD	CAM-CAU	3.69	1.56	1.52
4	F	1205	ZTD	CD2-CG	3.55	1.57	1.52
4	I	1205	ZTD	CAK-CAZ	-3.04	1.35	1.39
4	F	1205	ZTD	CAY-CBA	3.03	1.57	1.50
4	C	1205	ZTD	OAS-CBA	2.97	1.39	1.33
4	F	1205	ZTD	OAS-CBA	2.80	1.39	1.33
4	I	1205	ZTD	CAM-CAU	2.66	1.55	1.52
4	I	1205	ZTD	CAL-CAX	2.56	1.57	1.51
4	C	1205	ZTD	CAK-CAW	-2.49	1.34	1.39
4	I	1205	ZTD	CAM-CAZ	2.24	1.53	1.51
4	I	1205	ZTD	OAS-CBA	2.24	1.38	1.33
4	F	1205	ZTD	CAA-CAW	2.19	1.55	1.50
4	L	1205	ZTD	OAS-CBA	2.09	1.38	1.33
4	F	1205	ZTD	CA-N	2.01	1.51	1.47

All (32) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	F	1205	ZTD	CAM-CAU-N	7.33	130.05	117.83
4	L	1205	ZTD	CAZ-CAM-CAU	-5.63	104.33	112.33
4	C	1205	ZTD	CAM-CAU-N	5.55	127.08	117.83
4	F	1205	ZTD	CAZ-CAM-CAU	-5.32	104.76	112.33
4	I	1205	ZTD	CAM-CAU-N	5.12	126.37	117.83
4	C	1205	ZTD	CAL-OAS-CBA	5.06	125.58	115.83
4	F	1205	ZTD	OAS-CBA-CAY	4.78	119.58	112.34
4	I	1205	ZTD	OAS-CBA-CAY	4.72	119.50	112.34
4	F	1205	ZTD	OAB-CAU-CAM	-4.21	114.74	121.60
4	F	1205	ZTD	CB-CA-N	4.12	108.54	103.10

*Continued on next page...*

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	C	1205	ZTD	OAS-CBA-CAY	3.81	118.12	112.34
4	C	1205	ZTD	CAZ-CAM-CAU	-3.48	107.39	112.33
4	L	1205	ZTD	OAS-CBA-CAY	3.37	117.44	112.34
4	L	1205	ZTD	CAM-CAU-N	3.17	123.12	117.83
4	I	1205	ZTD	CG-CB-CA	3.04	107.86	103.97
4	I	1205	ZTD	CAL-NAR-C	3.02	126.67	122.34
4	F	1205	ZTD	OD1-CG-CD2	2.95	116.83	110.39
4	F	1205	ZTD	OAB-CAU-N	-2.94	115.18	121.54
4	I	1205	ZTD	OAB-CAU-N	-2.89	115.27	121.54
4	L	1205	ZTD	OD1-CG-CD2	-2.82	104.23	110.39
4	I	1205	ZTD	CG-CD2-N	2.82	106.08	103.08
4	L	1205	ZTD	CD2-N-CAU	-2.75	123.84	129.33
4	C	1205	ZTD	OAB-CAU-CAM	-2.74	117.14	121.60
4	C	1205	ZTD	OAB-CAU-N	-2.69	115.71	121.54
4	I	1205	ZTD	CAZ-CAM-CAU	-2.59	108.64	112.33
4	L	1205	ZTD	OAB-CAU-CAM	-2.48	117.57	121.60
4	I	1205	ZTD	CB-CA-N	2.44	106.32	103.10
4	I	1205	ZTD	CAI-OAS-CBA	2.39	120.45	115.83
4	L	1205	ZTD	CAH-CAY-CAG	2.16	121.66	118.59
4	C	1205	ZTD	CG-CB-CA	-2.06	101.33	103.97
4	C	1205	ZTD	CD2-N-CA	-2.03	108.77	111.70
4	I	1205	ZTD	OAB-CAU-CAM	-2.00	118.34	121.60

There are no chirality outliers.

All (8) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	L	1205	ZTD	CAY-CBA-OAS-CAI
4	C	1205	ZTD	CAY-CBA-OAS-CAI
4	C	1205	ZTD	OAD-CBA-OAS-CAI
4	L	1205	ZTD	OAD-CBA-OAS-CAI
4	F	1205	ZTD	CAY-CBA-OAS-CAI
4	I	1205	ZTD	CAZ-CAM-CAU-OAB
4	F	1205	ZTD	CAZ-CAM-CAU-N
4	I	1205	ZTD	CAZ-CAM-CAU-N

There are no ring outliers.

4 monomers are involved in 11 short contacts:

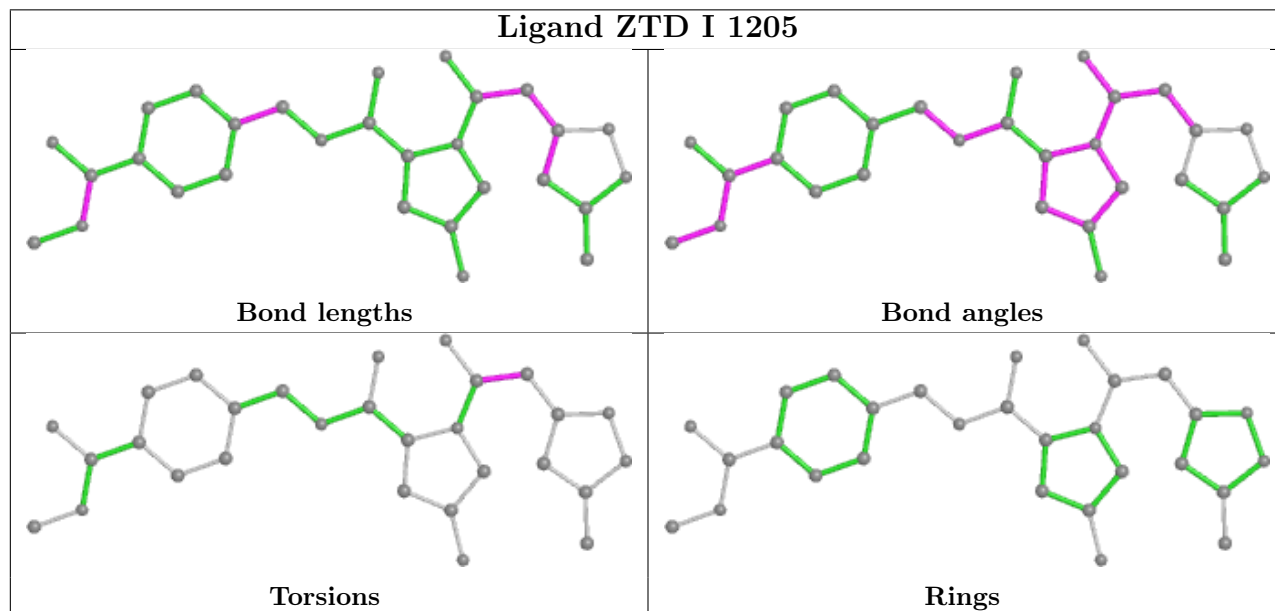
Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	I	1205	ZTD	5	0

Continued on next page...

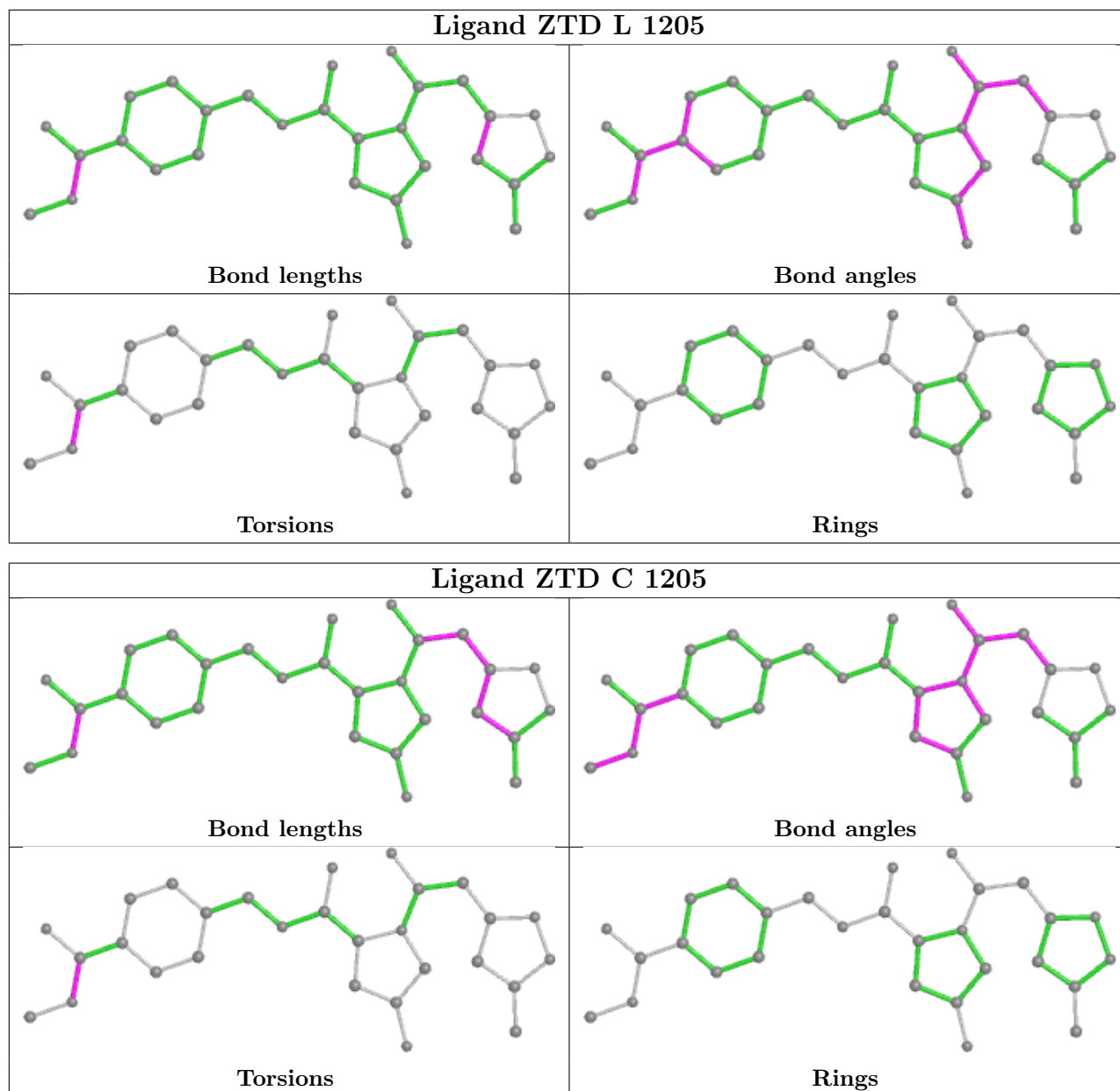
*Continued from previous page...*

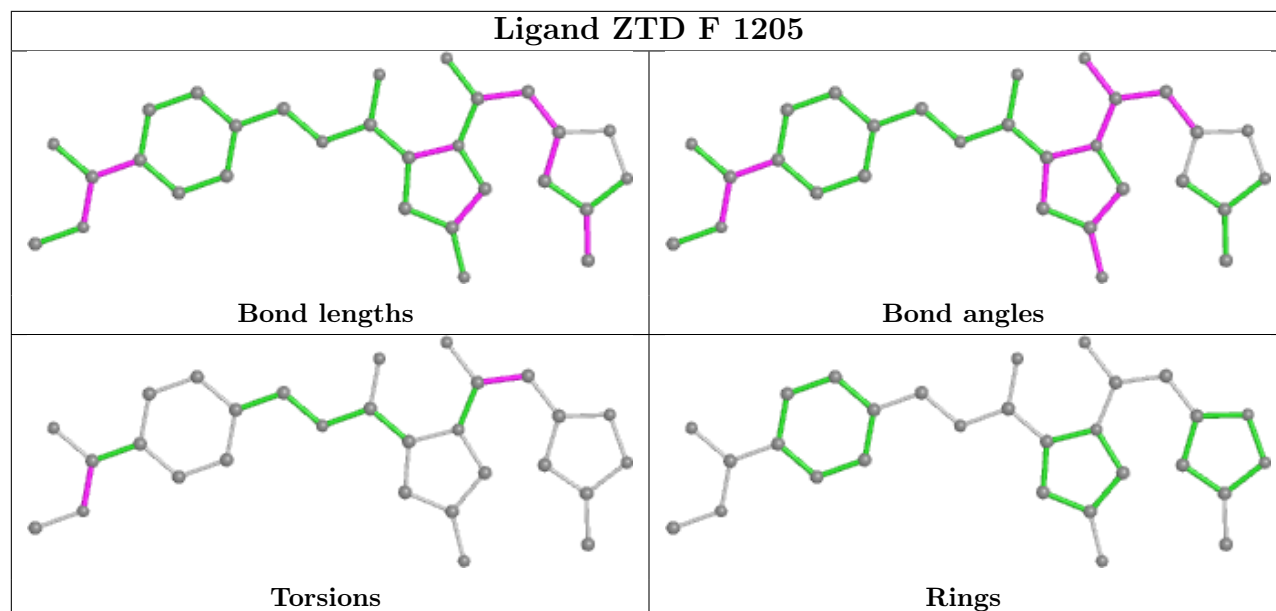
Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	L	1205	ZTD	4	0
4	C	1205	ZTD	1	0
4	F	1205	ZTD	1	0

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	102/118 (86%)	-0.33	1 (0%) 82 77	18, 37, 65, 68	0
1	D	100/118 (84%)	-0.15	1 (1%) 82 77	28, 50, 74, 82	0
1	G	102/118 (86%)	-0.08	2 (1%) 65 56	28, 49, 67, 69	0
1	J	104/118 (88%)	-0.33	0 100 100	18, 37, 54, 61	0
2	B	86/97 (88%)	-0.47	0 100 100	19, 33, 49, 55	0
2	E	87/97 (89%)	-0.29	0 100 100	26, 40, 55, 63	0
2	H	87/97 (89%)	-0.24	0 100 100	29, 41, 63, 68	0
2	K	87/97 (89%)	-0.36	0 100 100	18, 32, 54, 58	0
3	C	139/162 (85%)	-0.30	0 100 100	19, 37, 64, 75	0
3	F	142/162 (87%)	-0.22	2 (1%) 75 70	22, 38, 63, 69	0
3	I	142/162 (87%)	-0.30	0 100 100	19, 36, 62, 66	0
3	L	142/162 (87%)	-0.29	3 (2%) 63 54	14, 33, 56, 63	0
All	All	1320/1508 (87%)	-0.28	9 (0%) 87 84	14, 39, 64, 82	0

All (9) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
3	L	142	VAL	4.6
1	G	81	ALA	3.6
1	A	81	ALA	3.6
3	F	141	ASN	3.4
3	F	66	VAL	3.1
3	L	144	GLY	2.6
1	G	1	MET	2.6
1	D	38	PRO	2.4
3	L	140	LEU	2.3

## 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](#)

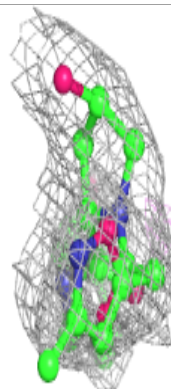
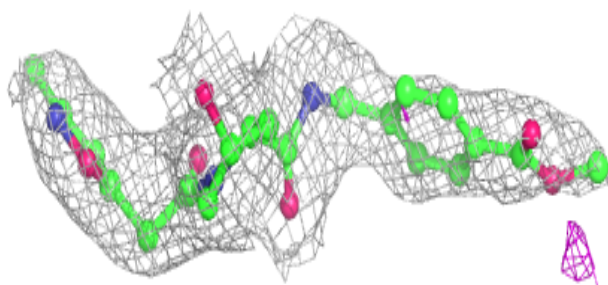
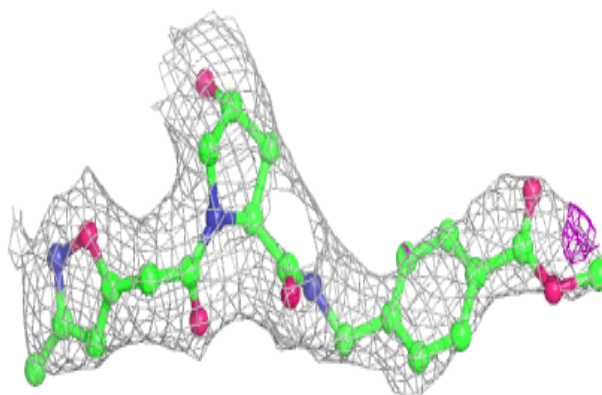
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95<sup>th</sup> percentile and maximum values of B factors of atoms in the group. The column labelled 'Q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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
4	ZTD	F	1205	29/29	0.92	0.24	30,45,58,60	0
4	ZTD	I	1205	29/29	0.94	0.19	36,42,54,56	0
4	ZTD	L	1205	29/29	0.95	0.20	35,37,41,41	0
4	ZTD	C	1205	29/29	0.96	0.20	31,43,46,47	0

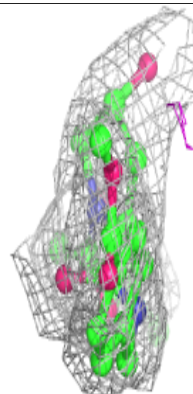
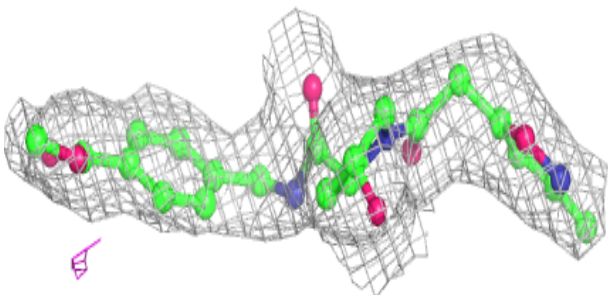
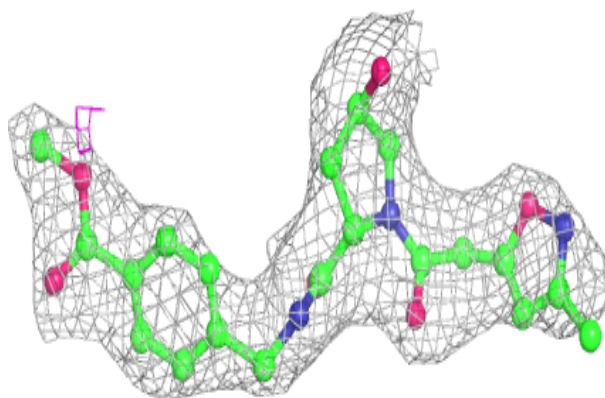
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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

**Electron density around ZTD F 1205:**

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

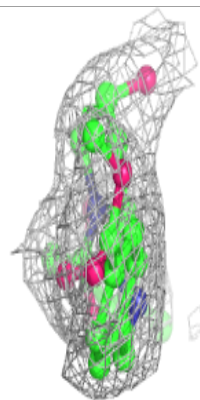
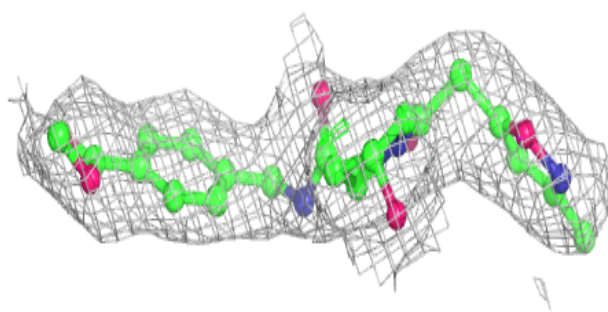
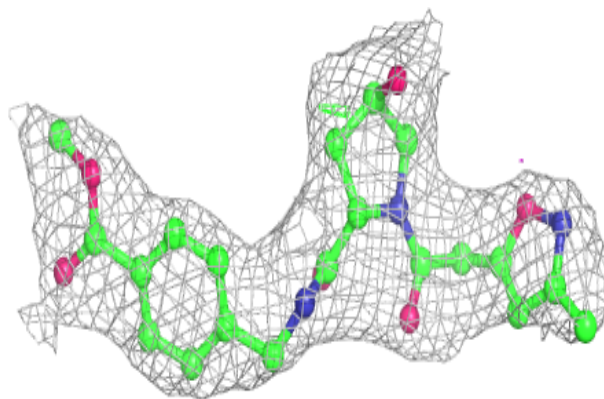
**Electron density around ZTD I 1205:**

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

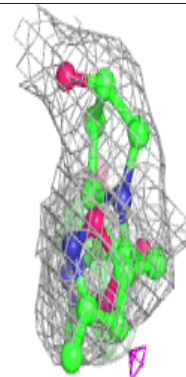
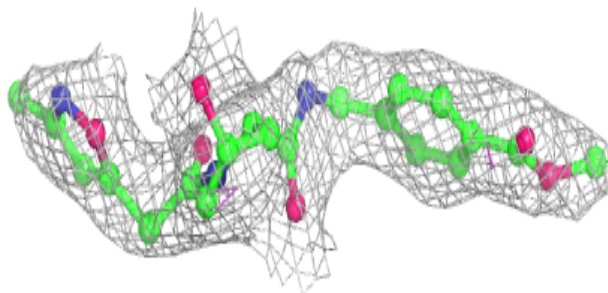
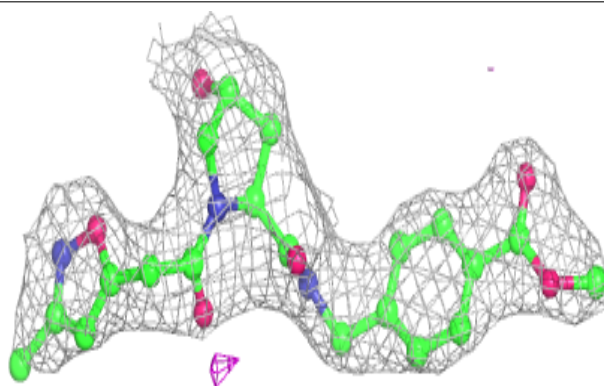


**Electron density around ZTD L 1205:**

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

**Electron density around ZTD C 1205:**

$2mF_o-DF_c$  (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.