



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 05:33 PM UTC

PDB ID : 4BKS / pdb_00004bks
Title : von Hippel Lindau protein:ElonginB:ElonginC complex, in complex with (2S, 4R)-1-ethanoyl-N-[[4-(1,3-oxazol-5-yl)phenyl]methyl]-4-oxidanyl-pyrrolidine-2-carboxamide
Authors : Van Molle, I.; Dias, D.M.; Baud, M.; Galdeano, C.; Geraldès, C.F.G.C.; Ciulli, A.
Deposited on : 2013-04-29
Resolution : 2.20 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

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](#) ①) were used in the production of this report:

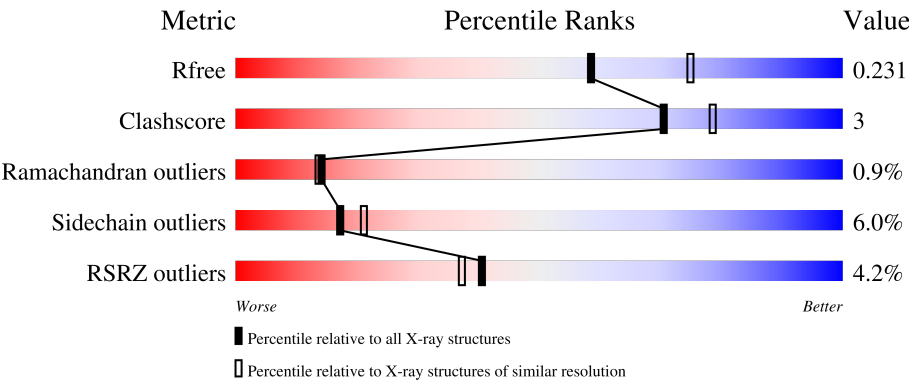
MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

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 2.20 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}	180053	6164 (2.20-2.20)
Clashscore	190562	6851 (2.20-2.20)
Ramachandran outliers	187476	6768 (2.20-2.20)
Sidechain outliers	187428	6769 (2.20-2.20)
RSRZ outliers	180081	6166 (2.20-2.20)

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 ≥ 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	104	3% 92% 6% ..
1	J	104	2% 91% 5% ...
2	B	97	4% 72% 15% • 10%
2	E	97	3% 72% 16% • 10%
2	H	97	9% 75% 12% • 10%

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Mol	Chain	Length	Quality of chain
2	K	97	6% 66% 16% 6% 11%
3	C	162	5% 77% 5% •• 15%
3	F	162	4% 76% 10% • 12%
3	I	162	% 78% 9% • 11%
3	L	162	3% 78% 9% •• 11%
4	D	104	5% 81% 12% •••
4	G	104	% 86% 12% ••

2 Entry composition

There are 7 unique types of molecules in this entry. The entry contains 11161 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
1	A	103	Total	As	C	N	O	S	0	0	0
			803	1	510	136	152	4			
1	J	103	Total	As	C	N	O	S	0	0	0
			806	1	511	136	154	4			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	87	Total	C	N	O	S	0	0	0
			689	445	110	128	6			
2	E	87	Total	C	N	O	S	0	0	0
			684	442	111	125	6			
2	H	87	Total	C	N	O	S	0	1	0
			691	446	109	130	6			
2	K	86	Total	C	N	O	S	0	1	0
			695	448	111	130	6			

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	16	MET	-	expression tag	UNP Q15369
E	16	MET	-	expression tag	UNP Q15369
H	16	MET	-	expression tag	UNP Q15369
K	16	MET	-	expression tag	UNP Q15369

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

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
3	C	138	Total	As	C	N	O	S	0	0	0
			1092	1	700	194	195	2			

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Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
3	F	142	Total	As	C	N	O	S	0	1	0
			1095	1	705	195	192	2			
3	I	144	Total	As	C	N	O	S	0	0	0
			1153	1	736	207	207	2			
3	L	144	Total	As	C	N	O	S	0	0	0
			1170	1	745	211	211	2			

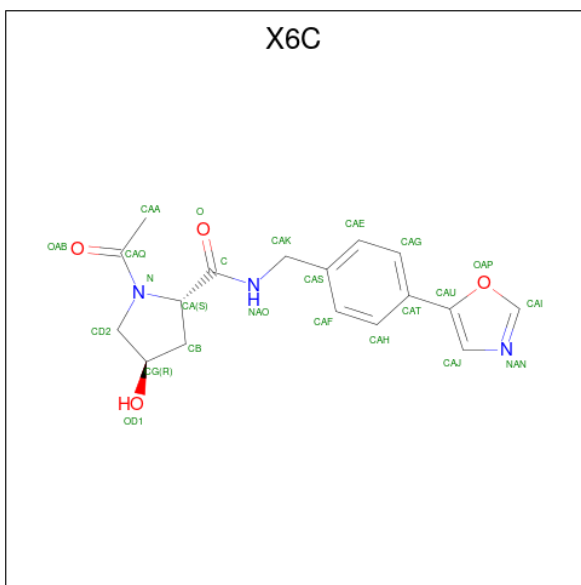
There are 8 discrepancies between the modelled and reference sequences:

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 a protein called TRANSCRIPTION ELONGATION FACTOR B POLYPEPTIDE 2.

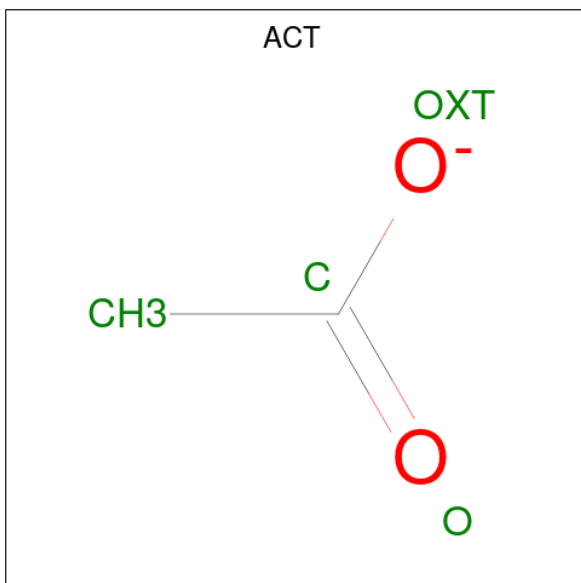
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	D	102	Total	C	N	O	S	0	0	0
			776	494	132	147	3			
4	G	103	Total	C	N	O	S	0	0	0
			799	506	135	154	4			

- Molecule 5 is (2S,4R)-1-ethanoyl-N-[[4-(1,3-oxazol-5-yl)phenyl]methyl]-4-oxidanyl-pyrrolidine-2-carboxamide (CCD ID: X6C) (formula: C₁₇H₁₉N₃O₄).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
5	C	1	Total 24	C 17	N 3	O 4	0	0
5	F	1	Total 24	C 17	N 3	O 4	0	0
5	I	1	Total 24	C 17	N 3	O 4	0	0
5	L	1	Total 24	C 17	N 3	O 4	0	0

- Molecule 6 is ACETATE ION (CCD ID: ACT) (formula: $\text{C}_2\text{H}_3\text{O}_2$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	C	1	Total C O 4 2 2	0	0
6	L	1	Total C O 4 2 2	0	0

- Molecule 7 is water.

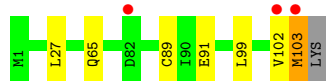
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	A	77	Total O 77 77	0	0
7	B	35	Total O 35 35	0	0
7	C	49	Total O 49 49	0	0
7	D	39	Total O 39 39	0	0
7	E	28	Total O 28 28	0	0
7	F	37	Total O 37 37	0	0
7	G	38	Total O 38 38	0	0
7	H	36	Total O 36 36	0	0
7	I	63	Total O 63 63	0	0
7	J	81	Total O 81 81	0	0
7	K	46	Total O 46 46	0	0
7	L	75	Total O 75 75	0	0

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.

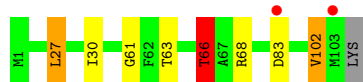
- Molecule 1: TRANSCRIPTION ELONGATION FACTOR B POLYPEPTIDE 2

Chain A: 



- Molecule 1: TRANSCRIPTION ELONGATION FACTOR B POLYPEPTIDE 2

Chain J: 



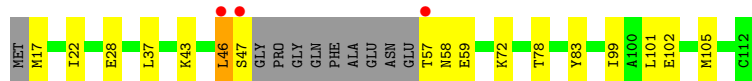
- Molecule 2: TRANSCRIPTION ELONGATION FACTOR B POLYPEPTIDE 1

Chain B: 



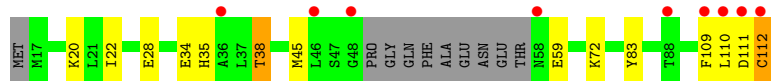
- Molecule 2: TRANSCRIPTION ELONGATION FACTOR B POLYPEPTIDE 1

Chain E: 

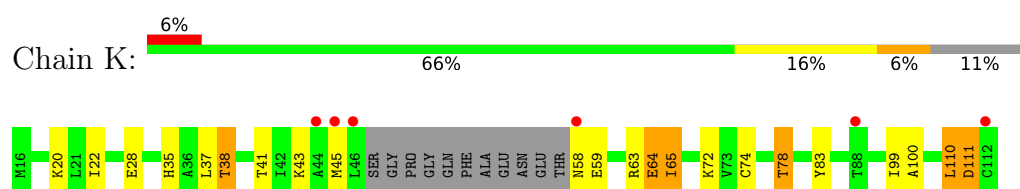


- Molecule 2: TRANSCRIPTION ELONGATION FACTOR B POLYPEPTIDE 1

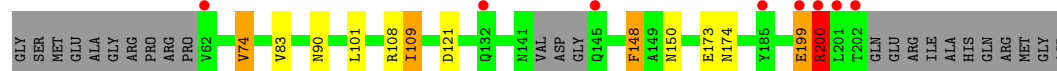
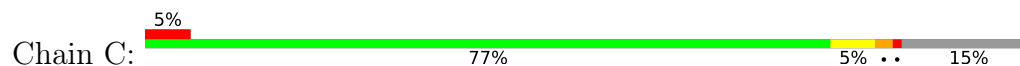
Chain H: 



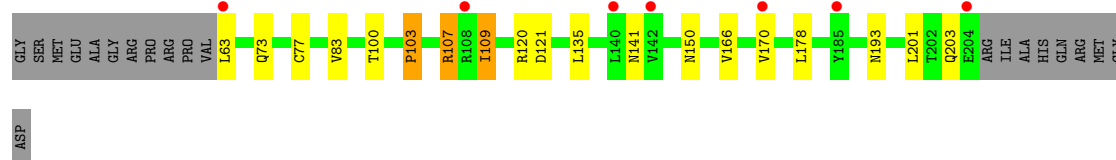
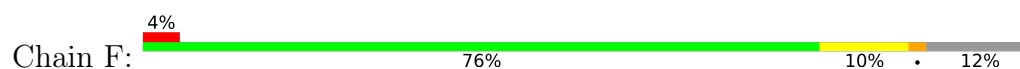
- Molecule 2: TRANSCRIPTION ELONGATION FACTOR B POLYPEPTIDE 1



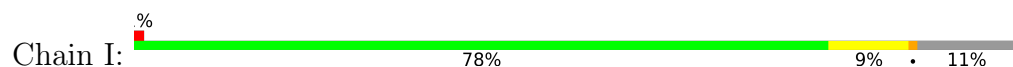
• Molecule 3: VON HIPPEL-LINDAU DISEASE TUMOR SUPPRESSOR



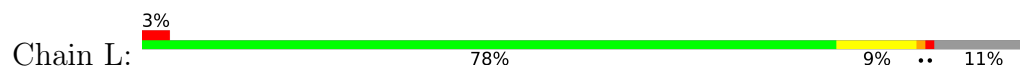
• Molecule 3: VON HIPPEL-LINDAU DISEASE TUMOR SUPPRESSOR



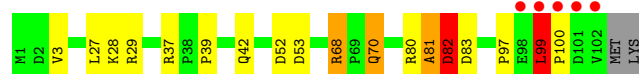
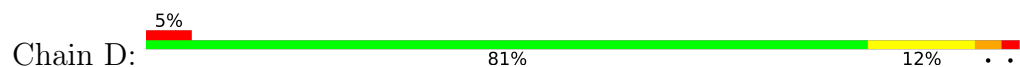
• Molecule 3: VON HIPPEL-LINDAU DISEASE TUMOR SUPPRESSOR



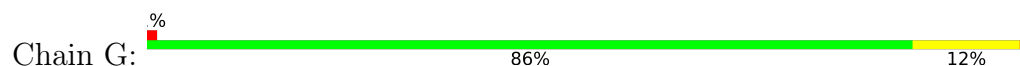
• Molecule 3: VON HIPPEL-LINDAU DISEASE TUMOR SUPPRESSOR

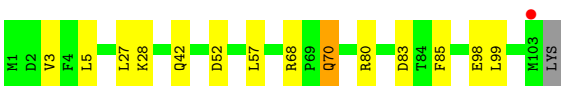


• Molecule 4: TRANSCRIPTION ELONGATION FACTOR B POLYPEPTIDE 2



• Molecule 4: TRANSCRIPTION ELONGATION FACTOR B POLYPEPTIDE 2





4 Data and refinement statistics

Property	Value	Source
Space group	P 41 2 2	Depositor
Cell constants a, b, c, α , β , γ	93.59Å 93.59Å 363.74Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	45.47 – 2.20 45.47 – 2.20	Depositor EDS
% Data completeness (in resolution range)	100.0 (45.47-2.20) 100.0 (45.47-2.20)	Depositor EDS
R_{merge}	0.12	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.41 (at 2.20Å)	Xtrriage
Refinement program	BUSTER 2.10.0	Depositor
R, R_{free}	0.188 , 0.225 0.196 , 0.231	Depositor DCC
R_{free} test set	4160 reflections (4.99%)	wwPDB-VP
Wilson B-factor (Å ²)	42.0	Xtrriage
Anisotropy	0.451	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 58.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.47$, $\langle L^2 \rangle = 0.30$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	11161	wwPDB-VP
Average B, all atoms (Å ²)	57.0	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 29.82 % 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 1.4529e-03. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

¹Intensities estimated from amplitudes.

²Theoretical 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

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: X6C, CAS, ACT

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	0.82	0/809	1.13	0/1094
1	J	0.82	0/812	1.20	1/1098 (0.1%)
2	B	0.88	0/703	1.38	4/949 (0.4%)
2	E	0.85	0/698	1.30	3/942 (0.3%)
2	H	0.81	0/705	1.32	3/951 (0.3%)
2	K	0.90	0/709	1.30	5/956 (0.5%)
3	C	0.81	0/1111	1.22	6/1520 (0.4%)
3	F	0.82	0/1115	1.21	4/1532 (0.3%)
3	I	0.83	1/1173 (0.1%)	1.18	2/1604 (0.1%)
3	L	0.88	0/1190	1.27	4/1624 (0.2%)
4	D	0.79	0/791	1.37	12/1073 (1.1%)
4	G	0.78	0/815	1.25	5/1105 (0.5%)
All	All	0.83	1/10631 (0.0%)	1.26	49/14448 (0.3%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	I	75	ILE	CG1-CD1	-5.08	1.31	1.51

All (49) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	D	81	ALA	CA-C-N	10.04	139.78	121.70
4	D	81	ALA	C-N-CA	10.04	139.78	121.70
3	L	178	LEU	N-CA-C	8.48	120.14	111.07
2	K	111	ASP	N-CA-C	8.35	122.17	109.23
4	D	82	ASP	CA-C-N	8.14	136.35	121.70
4	D	82	ASP	C-N-CA	8.14	136.35	121.70
3	C	200	ARG	CA-C-N	6.95	134.21	121.70
3	C	200	ARG	C-N-CA	6.95	134.21	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	G	83	ASP	N-CA-C	6.83	118.38	111.07
4	D	100	PRO	N-CA-CB	6.50	110.07	103.25
1	J	66	THR	N-CA-CB	-6.44	101.99	110.88
2	B	57	THR	CA-C-N	6.23	132.91	121.70
2	B	57	THR	C-N-CA	6.23	132.91	121.70
3	C	199	GLU	CA-C-N	6.03	132.55	121.70
3	C	199	GLU	C-N-CA	6.03	132.55	121.70
2	K	83	TYR	N-CA-C	6.01	120.77	113.38
3	F	193	ASN	CA-CB-CG	5.94	118.54	112.60
2	E	83	TYR	N-CA-C	5.65	120.33	113.38
2	H	111	ASP	CA-C-N	5.61	131.79	121.70
2	H	111	ASP	C-N-CA	5.61	131.79	121.70
2	H	83	TYR	N-CA-C	5.58	120.24	113.38
4	G	52	ASP	CA-C-N	5.49	127.90	120.38
4	G	52	ASP	C-N-CA	5.49	127.90	120.38
3	F	103	PRO	N-CA-C	5.49	123.78	112.47
2	K	65	ILE	N-CA-C	5.49	112.57	107.58
4	D	52	ASP	CA-C-N	5.49	127.89	120.38
4	D	52	ASP	C-N-CA	5.49	127.89	120.38
3	L	144	GLY	N-CA-C	-5.46	107.73	115.43
3	I	145	GLN	N-CA-C	5.46	117.50	109.42
3	L	178	LEU	CA-C-N	5.45	131.94	121.54
3	L	178	LEU	C-N-CA	5.45	131.94	121.54
2	B	65	ILE	N-CA-C	5.41	112.90	107.55
3	F	83	VAL	N-CA-C	-5.28	100.73	108.54
3	C	90	ASN	CA-CB-CG	5.26	117.86	112.60
2	B	77	PHE	CA-CB-CG	5.24	119.04	113.80
4	G	99	LEU	N-CA-C	5.17	115.93	109.57
3	I	83	VAL	N-CA-C	-5.14	100.94	108.54
2	K	100	ALA	N-CA-C	5.12	117.26	111.11
2	E	58	ASN	CA-C-N	5.12	130.62	122.94
2	E	58	ASN	C-N-CA	5.12	130.62	122.94
4	D	99	LEU	CA-C-N	5.12	126.24	119.84
4	D	99	LEU	C-N-CA	5.12	126.24	119.84
3	F	121	ASP	N-CA-C	-5.08	102.12	109.59
2	K	110	LEU	N-CA-C	5.06	119.08	113.01
4	D	81	ALA	N-CA-C	5.05	121.56	110.80
4	D	68	ARG	N-CA-C	5.03	116.98	110.40
4	D	53	ASP	N-CA-C	5.02	117.40	111.33
4	G	5	LEU	N-CA-C	5.02	117.30	109.52
3	C	83	VAL	N-CA-C	-5.02	101.12	108.54

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts

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	803	0	794	4	0
1	J	806	0	796	4	0
2	B	689	0	686	7	0
2	E	684	0	682	8	0
2	H	691	0	683	9	0
2	K	695	0	690	10	0
3	C	1092	0	1047	6	0
3	F	1095	0	1042	7	0
3	I	1153	0	1127	7	0
3	L	1170	0	1155	6	0
4	D	776	0	762	5	0
4	G	799	0	787	5	0
5	C	24	0	19	0	0
5	F	24	0	19	1	0
5	I	24	0	19	0	0
5	L	24	0	19	0	0
6	C	4	0	3	0	0
6	L	4	0	3	0	0
7	A	77	0	0	0	0
7	B	35	0	0	0	0
7	C	49	0	0	0	0
7	D	39	0	0	0	0
7	E	28	0	0	0	0
7	F	37	0	0	0	0
7	G	38	0	0	0	0
7	H	36	0	0	0	0
7	I	63	0	0	0	0
7	J	81	0	0	0	0
7	K	46	0	0	1	0
7	L	75	0	0	0	0
All	All	11161	0	10333	70	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 (70) 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)
2:H:45:MET:HE1	2:H:109:PHE:HZ	1.40	0.86
3:I:73:GLN:H	3:I:141:ASN:HD21	1.25	0.84
3:L:73:GLN:H	3:L:141:ASN:HD21	1.26	0.84
3:C:199:GLU:HA	3:C:200:ARG:HG2	1.67	0.77
3:F:73:GLN:H	3:F:141:ASN:HD21	1.32	0.75
2:H:45:MET:HE1	2:H:109:PHE:CZ	2.24	0.72
3:I:74:VAL:HB	3:I:109:ILE:CD1	2.23	0.68
3:I:74:VAL:HB	3:I:109:ILE:HD13	1.76	0.68
3:F:109:ILE:HG12	5:F:1203:X6C:HAH	1.75	0.68
2:B:57:THR:HA	2:B:58:ASN:HB2	1.77	0.67
4:G:70:GLN:HE21	4:G:70:GLN:H	1.43	0.67
2:K:41:THR:HG22	2:K:45:MET:HE2	1.78	0.65
1:J:63:THR:H	1:J:66:THR:HG22	1.61	0.65
2:H:112:CYS:HB3	3:I:158:LEU:HB3	1.81	0.62
4:D:70:GLN:HE21	4:D:70:GLN:H	1.48	0.61
4:G:70:GLN:H	4:G:70:GLN:NE2	1.98	0.61
2:E:102:GLU:HA	2:E:105:MET:HE2	1.83	0.60
4:D:70:GLN:H	4:D:70:GLN:NE2	1.99	0.60
3:C:148:PHE:CZ	2:K:45:MET:HG2	2.39	0.58
3:L:179:ASP:O	3:L:180:ILE:HG12	2.04	0.57
2:K:37:LEU:HD22	2:K:43:LYS:HG3	1.85	0.56
2:B:22:ILE:HG12	2:B:28:GLU:HG2	1.88	0.55
3:C:74:VAL:HG13	3:C:109:ILE:HG13	1.88	0.55
3:I:170:VAL:HG11	3:I:178:LEU:HD11	1.88	0.55
2:E:22:ILE:HG12	2:E:28:GLU:HG2	1.88	0.55
2:H:22:ILE:HG12	2:H:28:GLU:HG2	1.88	0.54
2:B:102:GLU:HA	2:B:105:MET:HE2	1.89	0.54
2:K:22:ILE:HG12	2:K:28:GLU:HG2	1.89	0.54
4:D:29:ARG:HE	4:D:39:PRO:HG2	1.74	0.53
3:F:170:VAL:HG11	3:F:178:LEU:HD11	1.90	0.53
2:B:35:HIS:O	2:B:38:THR:HB	2.09	0.52
3:F:77:CAS:AS	2:H:45:MET:HE2	2.69	0.52
2:E:57:THR:HA	2:E:59:GLU:H	1.73	0.51
2:H:110:LEU:C	2:H:112:CYS:H	2.18	0.51
2:H:35:HIS:O	2:H:38:THR:HB	2.11	0.51
2:K:35:HIS:O	2:K:38:THR:HB	2.12	0.49
4:G:27:LEU:HD13	4:G:57:LEU:HD11	1.95	0.48
3:I:176:ARG:NH1	3:I:185:TYR:HB3	2.28	0.48
2:E:37:LEU:HD21	2:E:46:LEU:HD23	1.94	0.48
2:H:20:LYS:HB3	2:H:59:GLU:HG2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:178:LEU:O	3:L:179:ASP:HB2	2.14	0.47
1:A:102:VAL:HG21	3:C:174:ASN:CB	2.44	0.47
2:B:20:LYS:HB3	2:B:59:GLU:HG2	1.96	0.47
2:B:57:THR:HA	2:B:58:ASN:CB	2.44	0.46
3:F:166:VAL:O	3:F:170:VAL:HG12	2.16	0.46
1:A:103:MET:HE1	2:B:101:LEU:HG	1.98	0.46
2:E:47:SER:O	2:E:47:SER:OG	2.29	0.46
2:K:64[A]:GLU:HG2	2:K:65:ILE:HG13	1.97	0.46
1:A:99:LEU:HD22	1:A:103:MET:HB3	1.97	0.46
2:K:20:LYS:HB3	2:K:59:GLU:HG2	1.96	0.46
4:G:80:ARG:HA	4:G:85:PHE:HA	1.97	0.46
2:H:45:MET:CE	2:H:109:PHE:HZ	2.17	0.46
4:D:80:ARG:C	4:D:82:ASP:HB2	2.42	0.45
3:I:166:VAL:O	3:I:170:VAL:HG12	2.16	0.44
4:D:28:LYS:HA	4:D:42:GLN:HE22	1.83	0.44
3:L:170:VAL:HG21	3:L:178:LEU:HD21	1.99	0.44
2:E:46:LEU:HD12	2:E:46:LEU:HA	1.80	0.43
1:J:102:VAL:HG13	3:L:170:VAL:HG13	2.01	0.43
4:G:28:LYS:HA	4:G:42:GLN:HE22	1.83	0.43
2:E:37:LEU:HD22	2:E:43:LYS:HG3	2.00	0.43
3:L:182:ARG:HA	3:L:185:TYR:CD2	2.54	0.43
3:C:148:PHE:HZ	2:K:45:MET:HG2	1.83	0.43
2:K:41:THR:O	2:K:45:MET:HG3	2.19	0.42
3:F:100:THR:O	3:F:107[A]:ARG:NH2	2.52	0.42
1:A:89:CAS:AS	1:A:91:GLU:HG2	2.78	0.42
2:E:101:LEU:HD11	3:F:178:LEU:HD22	2.01	0.42
1:J:61:GLY:O	1:J:66:THR:HG21	2.20	0.41
1:J:27:LEU:HD23	1:J:30:ILE:HD12	2.02	0.41
2:K:74:CYS:O	2:K:78:THR:HG23	2.21	0.41
3:C:108:ARG:HD3	7:K:2044:HOH:O	2.20	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

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	100/104 (96%)	95 (95%)	5 (5%)	0	100	100
1	J	100/104 (96%)	95 (95%)	4 (4%)	1 (1%)	12	11
2	B	83/97 (86%)	82 (99%)	1 (1%)	0	100	100
2	E	83/97 (86%)	83 (100%)	0	0	100	100
2	H	84/97 (87%)	82 (98%)	2 (2%)	0	100	100
2	K	83/97 (86%)	82 (99%)	1 (1%)	0	100	100
3	C	133/162 (82%)	128 (96%)	5 (4%)	0	100	100
3	F	140/162 (86%)	134 (96%)	5 (4%)	1 (1%)	18	19
3	I	141/162 (87%)	136 (96%)	5 (4%)	0	100	100
3	L	141/162 (87%)	132 (94%)	6 (4%)	3 (2%)	5	3
4	D	100/104 (96%)	89 (89%)	6 (6%)	5 (5%)	1	0
4	G	101/104 (97%)	96 (95%)	4 (4%)	1 (1%)	12	11
All	All	1289/1452 (89%)	1234 (96%)	44 (3%)	11 (1%)	14	14

All (11) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
4	D	81	ALA
4	D	83	ASP
3	L	143	ASP
3	L	179	ASP
3	L	180	ILE
4	D	82	ASP
1	J	83	ASP
4	D	99	LEU
4	G	98	GLU
4	D	97	PRO
3	F	103	PRO

5.3.2 Protein sidechains ⓘ

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	86/91 (94%)	83 (96%)	3 (4%)	32	43
1	J	87/91 (96%)	83 (95%)	4 (5%)	24	32
2	B	77/86 (90%)	72 (94%)	5 (6%)	15	18
2	E	76/86 (88%)	71 (93%)	5 (7%)	15	18
2	H	77/86 (90%)	73 (95%)	4 (5%)	21	26
2	K	78/86 (91%)	68 (87%)	10 (13%)	4	4
3	C	117/147 (80%)	109 (93%)	8 (7%)	14	17
3	F	114/147 (78%)	105 (92%)	9 (8%)	11	13
3	I	127/147 (86%)	122 (96%)	5 (4%)	28	39
3	L	131/147 (89%)	123 (94%)	8 (6%)	17	20
4	D	82/92 (89%)	76 (93%)	6 (7%)	13	15
4	G	87/92 (95%)	84 (97%)	3 (3%)	32	44
All	All	1139/1298 (88%)	1069 (94%)	70 (6%)	17	20

All (70) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	27	LEU
1	A	65	GLN
1	A	103	MET
2	B	38	THR
2	B	72	LYS
2	B	78	THR
2	B	88	THR
2	B	99	ILE
3	C	74	VAL
3	C	101	LEU
3	C	109	ILE
3	C	121	ASP
3	C	148	PHE
3	C	150	ASN
3	C	173	GLU
3	C	200	ARG
4	D	3	VAL
4	D	27	LEU
4	D	37	ARG
4	D	68	ARG

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Mol	Chain	Res	Type
4	D	70	GLN
4	D	99	LEU
2	E	17	MET
2	E	46	LEU
2	E	72	LYS
2	E	78	THR
2	E	99	ILE
3	F	63	LEU
3	F	107[A]	ARG
3	F	107[B]	ARG
3	F	109	ILE
3	F	120	ARG
3	F	135	LEU
3	F	150	ASN
3	F	201	LEU
3	F	203	GLN
4	G	3	VAL
4	G	68	ARG
4	G	70	GLN
2	H	34	GLU
2	H	38	THR
2	H	72	LYS
2	H	112	CYS
3	I	63	LEU
3	I	73	GLN
3	I	107	ARG
3	I	109	ILE
3	I	173	GLU
1	J	27	LEU
1	J	66	THR
1	J	68	ARG
1	J	102	VAL
2	K	38	THR
2	K	58	ASN
2	K	63	ARG
2	K	64[A]	GLU
2	K	64[B]	GLU
2	K	72	LYS
2	K	78	THR
2	K	99	ILE
2	K	110	LEU
2	K	111	ASP

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Mol	Chain	Res	Type
3	L	63	LEU
3	L	96	GLN
3	L	109	ILE
3	L	173	GLU
3	L	177	ARG
3	L	180	ILE
3	L	188	LEU
3	L	196	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (20) such sidechains are listed below:

Mol	Chain	Res	Type
2	B	108	ASN
3	C	96	GLN
3	C	150	ASN
4	D	42	GLN
4	D	70	GLN
2	E	35	HIS
3	F	141	ASN
3	F	193	ASN
4	G	10	HIS
4	G	42	GLN
4	G	70	GLN
3	I	67	ASN
3	I	96	GLN
3	I	141	ASN
3	I	174	ASN
1	J	10	HIS
3	L	73	GLN
3	L	132	GLN
3	L	141	ASN
3	L	145	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

6 non-standard protein/DNA/RNA residues 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	$\# Z > 2$
1	CAS	A	89	1	5,8,9	1.13	0	1,9,11	0.03	0
3	CAS	C	77	3	5,8,9	0.93	0	1,9,11	1.02	0
3	CAS	I	77	3	5,8,9	0.92	0	1,9,11	2.10	1 (100%)
3	CAS	L	77	3	5,8,9	1.04	0	1,9,11	3.50	1 (100%)
3	CAS	F	77	3	5,8,9	1.17	0	1,9,11	0.39	0
1	CAS	J	89	1	5,8,9	1.09	0	1,9,11	0.97	0

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
1	CAS	A	89	1	-	0/0/7/9	-
3	CAS	C	77	3	-	0/0/7/9	-
3	CAS	I	77	3	-	0/0/7/9	-
3	CAS	L	77	3	-	0/0/7/9	-
3	CAS	F	77	3	-	0/0/7/9	-
1	CAS	J	89	1	-	0/0/7/9	-

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	L	77	CAS	CB-CA-C	3.50	120.31	110.80
3	I	77	CAS	CB-CA-C	2.10	116.50	110.80

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

2 monomers are involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	A	89	CAS	1	0
3	F	77	CAS	1	0

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

6 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
5	X6C	C	1203	-	26,26,26	2.05	4 (15%)	33,36,36	1.72	6 (18%)
5	X6C	I	1206	-	26,26,26	2.10	5 (19%)	33,36,36	1.73	5 (15%)
6	ACT	C	1204	-	3,3,3	1.22	0	3,3,3	0.93	0
5	X6C	F	1203	-	26,26,26	2.07	5 (19%)	33,36,36	1.83	8 (24%)
6	ACT	L	1207	-	3,3,3	1.14	0	3,3,3	0.88	0
5	X6C	L	1206	-	26,26,26	2.21	7 (26%)	33,36,36	1.77	6 (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
5	X6C	C	1203	-	-	0/17/29/29	0/3/3/3
5	X6C	I	1206	-	-	2/17/29/29	0/3/3/3
5	X6C	L	1206	-	-	1/17/29/29	0/3/3/3
5	X6C	F	1203	-	-	0/17/29/29	0/3/3/3

All (21) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	I	1206	X6C	CAT-CAU	-5.48	1.35	1.48
5	C	1203	X6C	CAT-CAU	-5.47	1.35	1.48
5	F	1203	X6C	CAT-CAU	-5.41	1.35	1.48
5	L	1206	X6C	CAT-CAU	-5.40	1.35	1.48
5	C	1203	X6C	CA-C	-4.98	1.41	1.52
5	L	1206	X6C	CA-C	-4.89	1.41	1.52
5	I	1206	X6C	CA-C	-4.88	1.41	1.52
5	F	1203	X6C	CA-C	-4.72	1.41	1.52
5	L	1206	X6C	OAP-CAI	4.64	1.43	1.35
5	I	1206	X6C	CAK-CAS	-4.18	1.42	1.51
5	F	1203	X6C	CAK-CAS	-3.91	1.42	1.51
5	C	1203	X6C	CAK-CAS	-3.51	1.43	1.51
5	L	1206	X6C	CAK-CAS	-3.27	1.44	1.51
5	I	1206	X6C	CD2-N	3.22	1.52	1.47
5	F	1203	X6C	CA-N	3.14	1.53	1.47
5	C	1203	X6C	CA-N	3.05	1.53	1.47
5	I	1206	X6C	CA-N	3.05	1.53	1.47
5	F	1203	X6C	OAP-CAU	3.01	1.42	1.37
5	L	1206	X6C	CA-N	2.83	1.52	1.47
5	L	1206	X6C	OAP-CAU	2.53	1.41	1.37
5	L	1206	X6C	CD2-N	2.11	1.50	1.47

All (25) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	L	1206	X6C	CAT-CAU-CAJ	-7.41	126.30	135.21
5	I	1206	X6C	CAT-CAU-CAJ	-6.91	126.90	135.21
5	F	1203	X6C	CAT-CAU-CAJ	-6.85	126.97	135.21
5	C	1203	X6C	CAT-CAU-CAJ	-6.67	127.18	135.21
5	I	1206	X6C	OAP-CAI-NAN	-3.52	106.77	114.64
5	L	1206	X6C	OAP-CAI-NAN	-3.25	107.39	114.64
5	F	1203	X6C	CD2-N-CA	-3.23	107.56	111.83
5	C	1203	X6C	OAP-CAI-NAN	-3.13	107.64	114.64
5	C	1203	X6C	CD2-N-CA	-3.12	107.69	111.83
5	F	1203	X6C	OAP-CAI-NAN	-2.96	108.02	114.64
5	F	1203	X6C	CAJ-NAN-CAI	2.77	110.27	104.05
5	L	1206	X6C	CAJ-NAN-CAI	2.69	110.11	104.05
5	I	1206	X6C	CAJ-NAN-CAI	2.68	110.07	104.05
5	F	1203	X6C	CG-CD2-N	2.60	105.50	103.00
5	F	1203	X6C	CB-CA-N	2.55	106.21	103.17
5	C	1203	X6C	CG-CD2-N	2.47	105.38	103.00
5	C	1203	X6C	CAJ-NAN-CAI	2.39	109.43	104.05
5	I	1206	X6C	CD2-N-CA	-2.38	108.67	111.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	L	1206	X6C	CG-CB-CA	2.31	106.45	103.75
5	I	1206	X6C	CG-CB-CA	2.26	106.39	103.75
5	L	1206	X6C	OAP-CAU-CAT	2.24	125.62	118.34
5	F	1203	X6C	OAP-CAU-CAT	2.16	125.38	118.34
5	C	1203	X6C	OAP-CAU-CAT	2.15	125.33	118.34
5	L	1206	X6C	CB-CG-CD2	2.10	105.52	103.18
5	F	1203	X6C	OAB-CAQ-N	2.04	122.81	120.45

There are no chirality outliers.

All (3) torsion outliers are listed below:

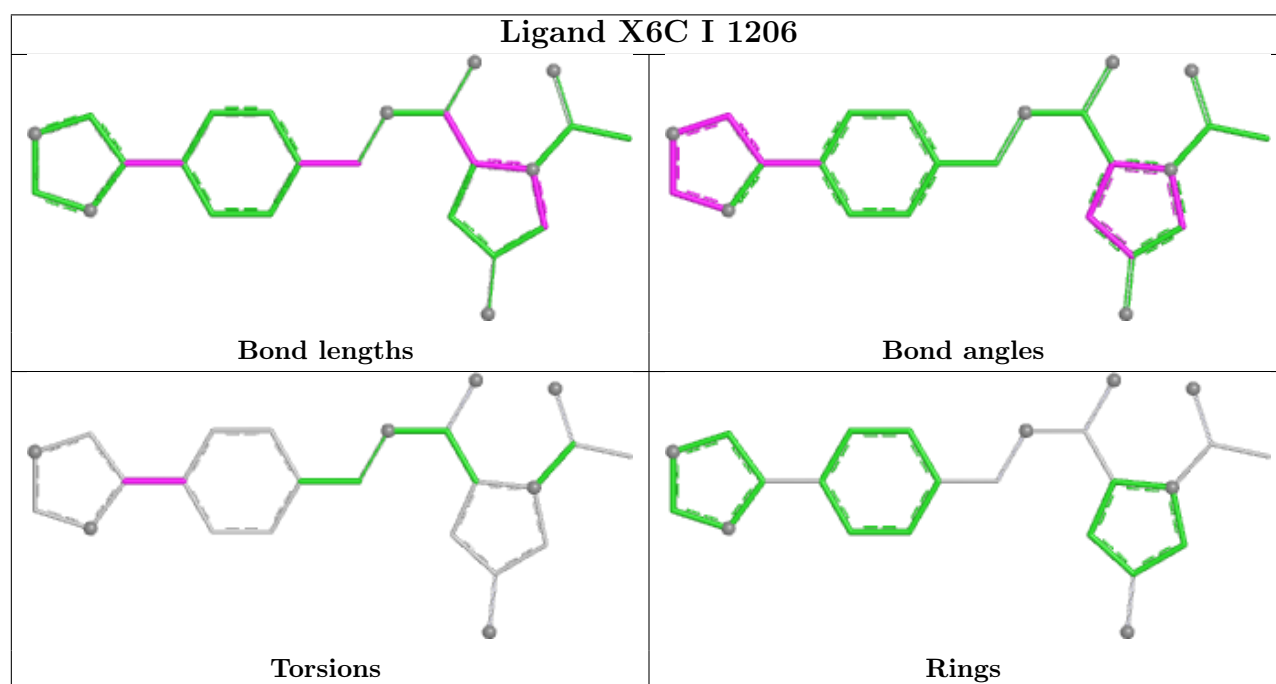
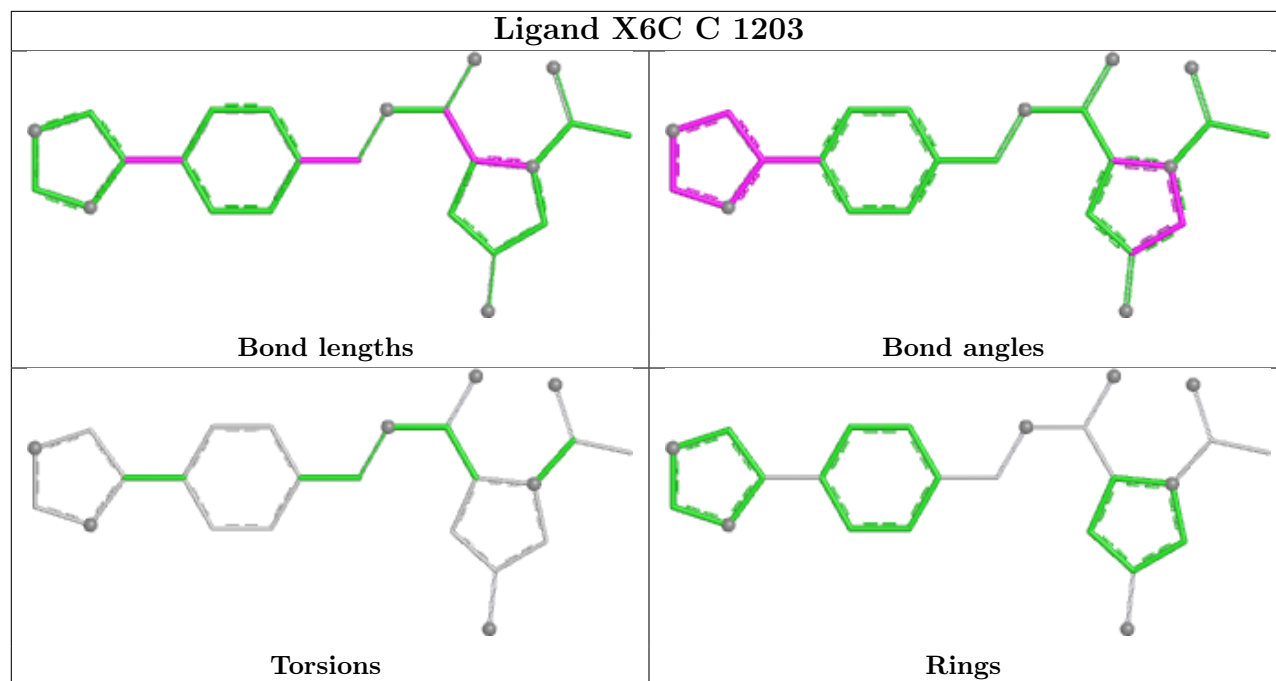
Mol	Chain	Res	Type	Atoms
5	I	1206	X6C	CAH-CAT-CAU-CAJ
5	I	1206	X6C	CAG-CAT-CAU-CAJ
5	L	1206	X6C	CAH-CAT-CAU-CAJ

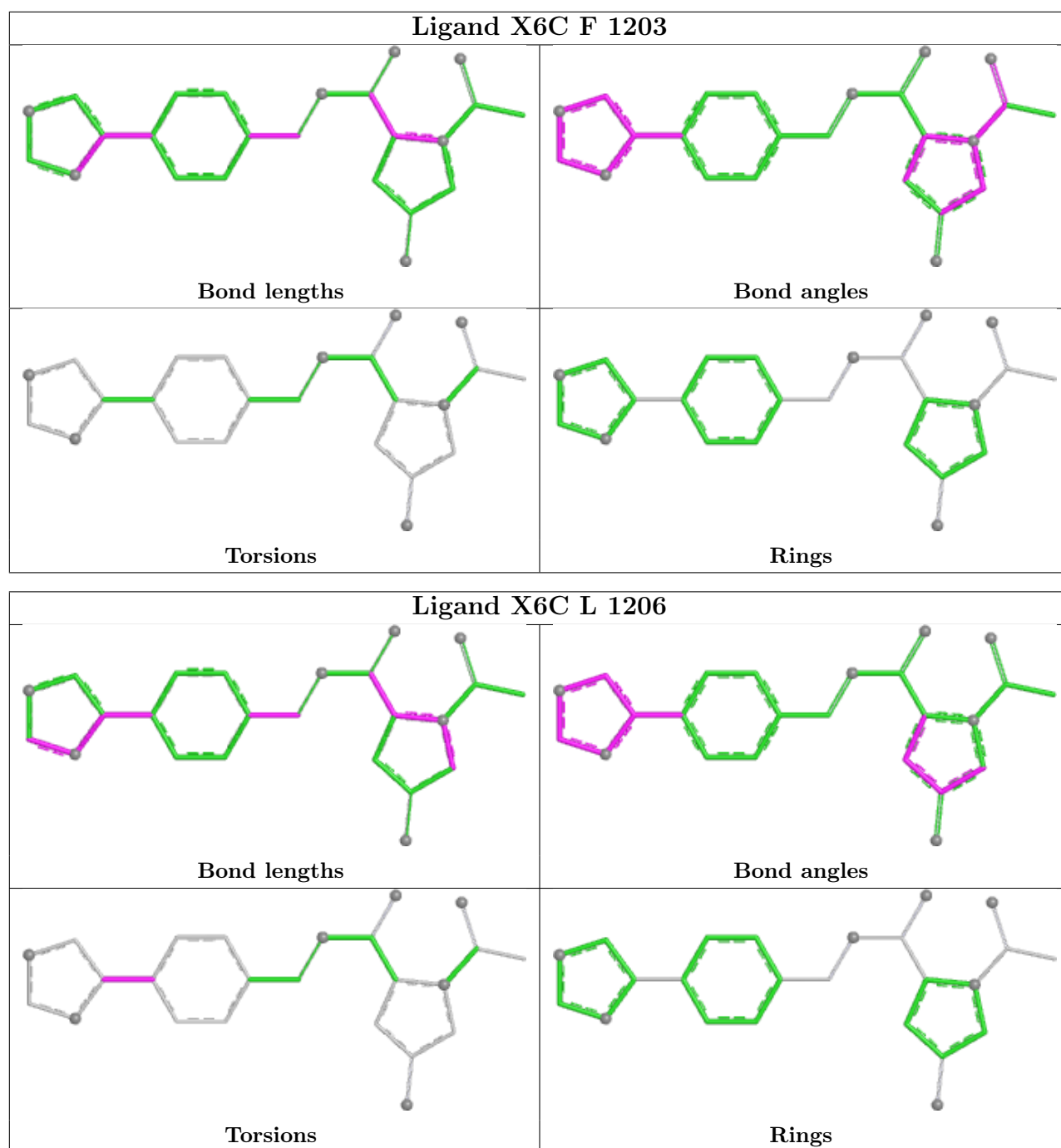
There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	F	1203	X6C	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, 95th 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 ²)	Q<0.9
1	A	102/104 (98%)	-0.19	3 (2%) 53 50	31, 45, 82, 104	0
1	J	102/104 (98%)	-0.32	2 (1%) 65 62	30, 44, 73, 94	0
2	B	87/97 (89%)	-0.04	4 (4%) 37 34	32, 47, 90, 104	0
2	E	87/97 (89%)	0.21	3 (3%) 48 45	38, 60, 91, 104	0
2	H	87/97 (89%)	0.30	9 (10%) 12 9	31, 56, 94, 139	1 (1%)
2	K	86/97 (88%)	0.10	6 (6%) 22 19	25, 46, 82, 120	1 (1%)
3	C	137/162 (84%)	0.24	8 (5%) 29 25	40, 58, 90, 131	0
3	F	141/162 (87%)	0.36	7 (4%) 34 31	35, 64, 97, 134	1 (0%)
3	I	143/162 (88%)	0.05	2 (1%) 73 71	36, 50, 81, 106	0
3	L	143/162 (88%)	-0.05	5 (3%) 47 44	30, 44, 82, 106	0
4	D	102/104 (98%)	0.48	5 (4%) 35 31	38, 69, 123, 160	0
4	G	103/104 (99%)	0.10	1 (0%) 79 77	38, 59, 83, 90	0
All	All	1320/1452 (90%)	0.10	55 (4%) 40 37	25, 54, 93, 160	3 (0%)

All (55) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
3	C	202	THR	6.6
3	F	204	GLU	5.4
4	D	102	VAL	5.0
3	I	205	ARG	4.9
2	E	47	SER	4.7
4	D	100	PRO	4.5
3	I	62	VAL	4.5
1	A	102	VAL	4.5
3	L	205	ARG	4.3
4	D	101	ASP	4.2
3	C	201	LEU	4.2

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Mol	Chain	Res	Type	RSRZ
2	H	48	GLY	3.9
3	C	185	TYR	3.8
3	L	62	VAL	3.6
4	D	99	LEU	3.5
2	E	57	THR	3.4
2	H	111	ASP	3.4
3	C	62	VAL	3.2
3	C	132	GLN	3.2
2	B	112	CYS	3.0
3	C	145	GLN	2.9
1	A	82	ASP	2.9
1	A	103	MET	2.7
1	J	83	ASP	2.6
4	G	103	MET	2.6
3	F	185	TYR	2.6
2	B	47	SER	2.5
2	B	88	THR	2.4
2	K	112	CYS	2.4
3	C	200	ARG	2.4
3	F	142	VAL	2.4
3	F	140	LEU	2.4
3	L	185	TYR	2.4
2	E	46	LEU	2.4
2	H	46	LEU	2.4
2	K	44	ALA	2.3
2	H	109	PHE	2.3
3	F	63	LEU	2.3
3	F	108	ARG	2.3
4	D	98	GLU	2.3
2	H	112	CYS	2.3
2	K	46	LEU	2.2
2	H	58	ASN	2.2
2	K	58	ASN	2.2
2	H	110	LEU	2.2
2	K	45	MET	2.1
2	H	88	THR	2.1
3	F	170	VAL	2.1
3	C	199	GLU	2.1
2	H	36	ALA	2.1
3	L	144	GLY	2.1
2	B	57	THR	2.0
2	K	88	THR	2.0

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Mol	Chain	Res	Type	RSRZ
1	J	103	MET	2.0
3	L	203	GLN	2.0

6.2 Non-standard residues in protein, DNA, RNA chains [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, 95th 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 ²)	Q<0.9
1	CAS	A	89	9/10	0.78	0.17	47,52,64,65	3
1	CAS	J	89	9/10	0.88	0.17	44,45,60,61	3
3	CAS	F	77	9/10	0.90	0.14	55,61,78,81	3
3	CAS	I	77	9/10	0.91	0.14	41,43,59,60	3
3	CAS	C	77	9/10	0.93	0.13	51,54,72,75	3
3	CAS	L	77	9/10	0.94	0.12	35,37,52,54	3

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

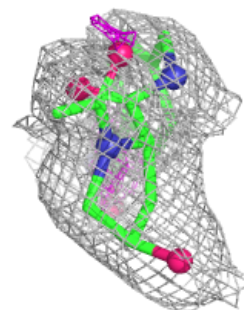
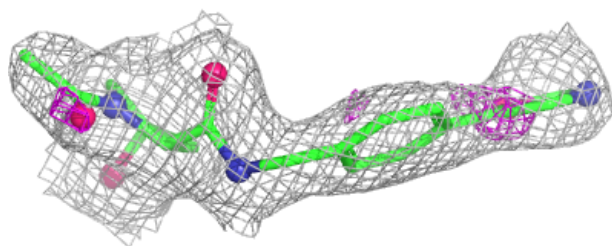
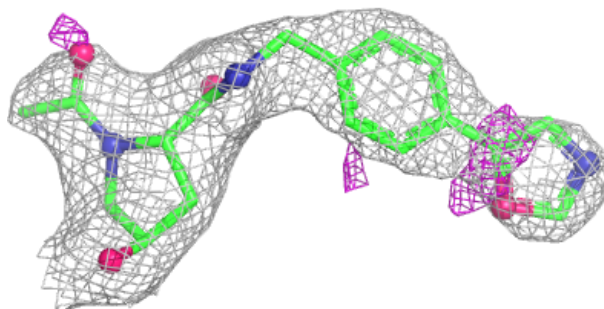
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
6	ACT	C	1204	4/4	0.81	0.16	66,74,75,76	0
6	ACT	L	1207	4/4	0.81	0.20	68,74,76,77	0
5	X6C	F	1203	24/24	0.90	0.10	46,60,76,77	0
5	X6C	C	1203	24/24	0.94	0.08	42,50,65,67	0
5	X6C	I	1206	24/24	0.95	0.07	34,45,52,54	0
5	X6C	L	1206	24/24	0.95	0.07	34,38,44,47	0

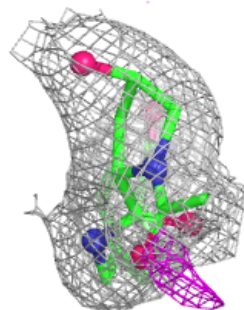
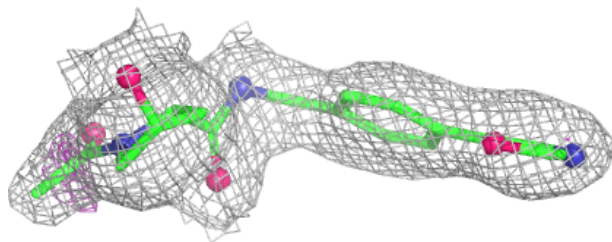
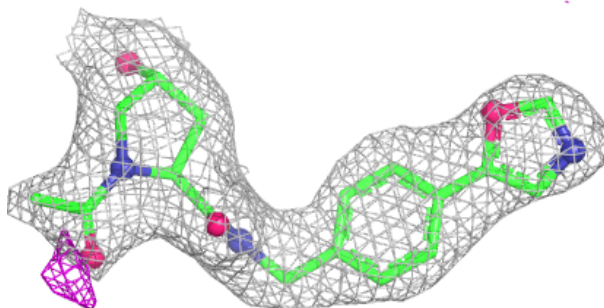
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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

Electron density around X6C F 1203:

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

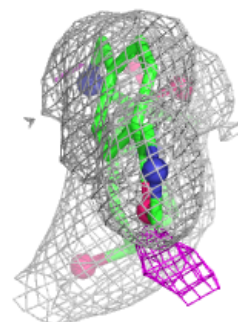
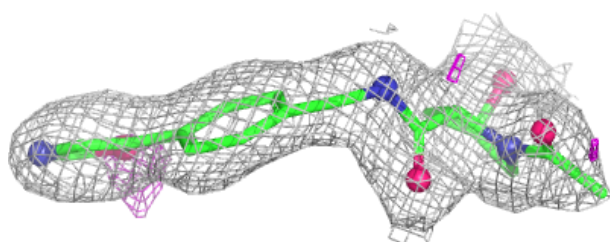
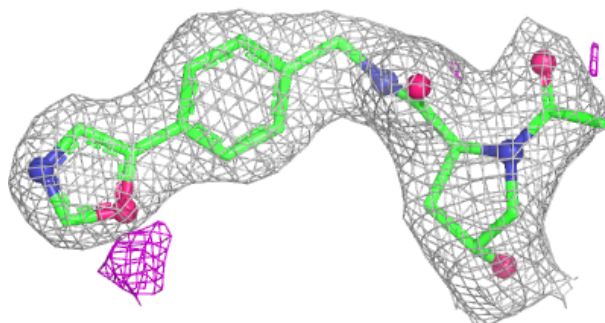
**Electron density around X6C C 1203:**

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

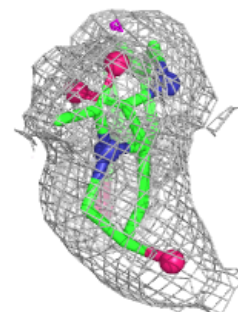
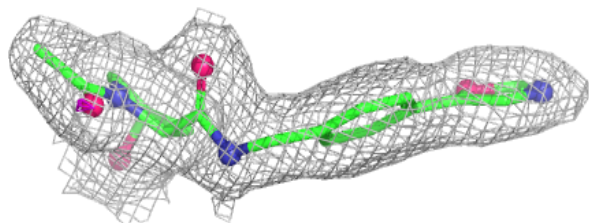
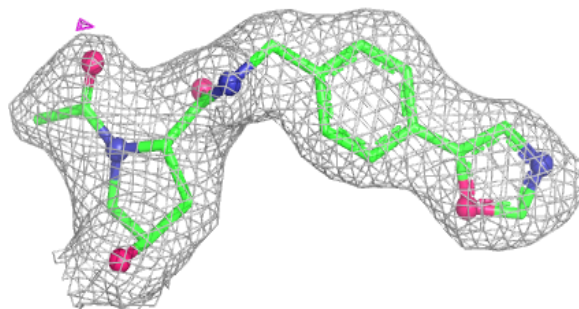


Electron density around X6C I 1206:

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

**Electron density around X6C L 1206:**

$2mF_o-DF_c$ (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.