

Full wwPDB X-ray Structure Validation Report (i)

Nov 16, 2023 – 09:15 AM JST

PDB ID	:	6LKV
Title	:	Structural and functional insights into macrophage migration inhibitory factor
		from Oncomelania hupensis, the intermediate host of Schistosoma japonicum
Authors	:	Su, Z.M.; Tian, X.Y.; Li, H.J.; Wei, Z.M.; Chen, L.F.; Ren, H.X.; Peng, W.F.;
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Deposited on	:	2019-12-20
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 (i) 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 (i)) were used in the production of this report:

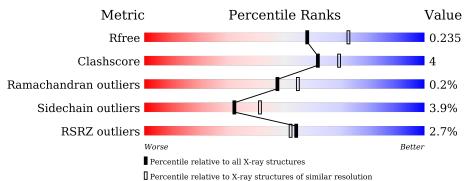
		4 001 407
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.36
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	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: $X\text{-}RAY \, DIFFRACTION$

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	$\begin{array}{l} \textbf{Whole archive} \\ (\#\textbf{Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries,\ resolution\ range}({ m \AA}))$
R _{free}	130704	4898 (2.20-2.20)
Clashscore	141614	5594 (2.20-2.20)
Ramachandran outliers	138981	5503 (2.20-2.20)
Sidechain outliers	138945	5504 (2.20-2.20)
RSRZ outliers	127900	4800 (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 <=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	F	141	91%	8%	•
2	А	138	4% 90%	8%	•
3	В	140	% 	9%	•
4	С	138	3% 87%	10%	•



6 L K V

2 Entry composition (i)

There are 7 unique types of molecules in this entry. The entry contains 4831 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 Macrophage migration inhibitory factor.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	F	141	Total 1112	C 702	N 202	O 196	S 12	0	0	0

There are 13 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
F	89	ASN	LYS	See sequence details	UNP A0A1U9W5E8
F	90	VAL	ILE	See sequence details	UNP A0A1U9W5E8
F	125	ILE	ASN	See sequence details	UNP A0A1U9W5E8
F	132	TYR	-	expression tag	UNP A0A1U9W5E8
F	133	LEU	-	expression tag	UNP A0A1U9W5E8
F	134	HIS	-	expression tag	UNP A0A1U9W5E8
F	135	HIS	-	expression tag	UNP A0A1U9W5E8
F	136	HIS	-	expression tag	UNP A0A1U9W5E8
F	137	HIS	-	expression tag	UNP A0A1U9W5E8
F	138	HIS	-	expression tag	UNP A0A1U9W5E8
F	139	HIS	-	expression tag	UNP A0A1U9W5E8
F	140	HIS	-	expression tag	UNP A0A1U9W5E8
F	141	ALA	-	expression tag	UNP A0A1U9W5E8

• Molecule 2 is a protein called Macrophage migration inhibitory factor.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	А	138	Total 1081	C 683	N 187	0 199	S 12	0	2	0

There are 10 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
А	89	ASN	LYS	See sequence details	UNP A0A1U9W5E8
А	90	VAL	ILE	See sequence details	UNP A0A1U9W5E8
А	125	ILE	ASN	See sequence details	UNP A0A1U9W5E8



Chain	Residue	Modelled	Actual	Comment	Reference
А	132	TYR	-	expression tag	UNP A0A1U9W5E8
А	133	LEU	-	expression tag	UNP A0A1U9W5E8
А	134	ALA	-	expression tag	UNP A0A1U9W5E8
А	135	ALA	-	expression tag	UNP A0A1U9W5E8
А	136	HIS	-	expression tag	UNP A0A1U9W5E8
А	137	ALA	-	expression tag	UNP A0A1U9W5E8
А	138	ALA	-	expression tag	UNP A0A1U9W5E8

• Molecule 3 is a protein called Macrophage migration inhibitory factor.

Mo	l Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	В	140	Total 1110	C 700	N 201	O 197	S 12	0	0	0

There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
В	89	ASN	LYS	See sequence details	UNP A0A1U9W5E8
В	90	VAL	ILE	See sequence details	UNP A0A1U9W5E8
В	125	ILE	ASN	See sequence details	UNP A0A1U9W5E8
В	132	TYR	-	expression tag	UNP A0A1U9W5E8
В	133	LEU	-	expression tag	UNP A0A1U9W5E8
В	134	HIS	-	expression tag	UNP A0A1U9W5E8
В	135	HIS	-	expression tag	UNP A0A1U9W5E8
В	136	HIS	-	expression tag	UNP A0A1U9W5E8
В	137	HIS	-	expression tag	UNP A0A1U9W5E8
В	138	HIS	-	expression tag	UNP A0A1U9W5E8
В	139	HIS	-	expression tag	UNP A0A1U9W5E8
В	140	HIS	-	expression tag	UNP A0A1U9W5E8

• Molecule 4 is a protein called Macrophage migration inhibitory factor.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	С	138	Total 1097	C 693	N 197	0 195	S 12	0	1	0

There are 10 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
С	89	ASN	LYS	See sequence details	UNP A0A1U9W5E8
С	90	VAL	ILE	See sequence details	UNP A0A1U9W5E8
С	125	ILE	ASN	See sequence details	UNP A0A1U9W5E8

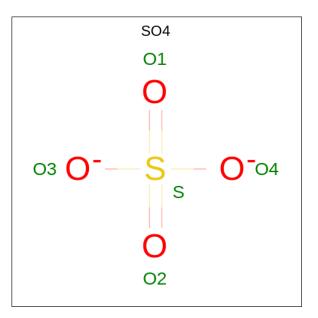


Chain	Residue	Modelled	Actual	Comment	Reference
С	132	TYR	-	expression tag	UNP A0A1U9W5E8
С	133	LEU	-	expression tag	UNP A0A1U9W5E8
С	134	HIS	-	expression tag	UNP A0A1U9W5E8
С	135	HIS	-	expression tag	UNP A0A1U9W5E8
С	136	HIS	-	expression tag	UNP A0A1U9W5E8
С	137	HIS	-	expression tag	UNP A0A1U9W5E8
С	138	HIS	-	expression tag	UNP A0A1U9W5E8

• Molecule 5 is CHLORIDE ION (three-letter code: CL) (formula: Cl) (labeled as "Ligand of Interest" by depositor).

M	ol	Chain	Residues	Atoms	ZeroOcc	AltConf
5		В	1	Total Cl 1 1	0	0
5		С	1	Total Cl 1 1	0	0

• Molecule 6 is SULFATE ION (three-letter code: SO4) (formula: O_4S) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms		ZeroOcc	AltConf	
6	В	1	Total 5	0 4	S 1	0	0

• Molecule 7 is water.



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	F	106	Total O 106 106	0	0
7	А	125	Total O 125 125	0	0
7	В	117	Total O 117 117	0	0
7	С	76	Total O 76 76	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: Macrophage migration inhibitory factor





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 3 2 1	Depositor
Cell constants	110.85Å 110.85 Å 97.65 Å	Depositor
a, b, c, α , β , γ	90.00° 90.00° 120.00°	Depositor
Resolution (Å)	48.25 - 2.20	Depositor
Resolution (A)	43.52 - 2.20	EDS
% Data completeness	99.8 (48.25-2.20)	Depositor
(in resolution range)	99.8 (43.52 - 2.20)	EDS
R _{merge}	0.07	Depositor
R _{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$7.60 (at 2.20 \text{\AA})$	Xtriage
Refinement program	REFMAC 5.8.0238	Depositor
D D	0.179 , 0.226	Depositor
R, R_{free}	0.189 , 0.235	DCC
R_{free} test set	1782 reflections (5.00%)	wwPDB-VP
Wilson B-factor $(Å^2)$	28.9	Xtriage
Anisotropy	0.043	Xtriage
Bulk solvent $k_{sol}(e/Å^3), B_{sol}(Å^2)$	0.31, 36.9	EDS
L-test for twinning ²	$< L > = 0.50, < L^2 > = 0.33$	Xtriage
Estimated twinning fraction	0.024 for -h,-k,l	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	4831	wwPDB-VP
Average B, all atoms $(Å^2)$	34.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 3.65% of the height of the origin peak. No significant pseudotranslation is detected.

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.



¹Intensities estimated from amplitudes.

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: SO4, $\rm CL$

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	Bo	nd lengths	Bo	nd angles
	Unam	RMSZ	# Z > 5	RMSZ	# Z > 5
1	F	0.73	0/1136	0.87	0/1537
2	А	0.76	1/1105~(0.1%)	0.85	0/1495
3	В	0.73	0/1134	0.86	1/1534~(0.1%)
4	С	0.69	0/1123	0.80	0/1519
All	All	0.73	1/4498~(0.0%)	0.85	1/6085~(0.0%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	А	86	GLU	CD-OE2	5.42	1.31	1.25

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
3	В	134	HIS	CA-CB-CG	-5.55	104.17	113.60

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	F	1112	0	1109	11	0
2	А	1081	0	1094	10	0



Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	В	1110	0	1106	10	0
4	С	1097	0	1099	11	0
5	В	1	0	0	0	0
5	С	1	0	0	0	0
6	В	5	0	0	0	0
7	А	125	0	0	2	0
7	В	117	0	0	4	0
7	С	76	0	0	2	0
7	F	106	0	0	2	0
All	All	4831	0	4408	39	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 4.

All (39) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom 1	Atom-2	Interatomic	Clash
Atom-1	Atom-2	distance (\AA)	overlap (Å)
1:F:90:VAL:HB	7:F:263:HOH:O	1.47	1.13
3:B:13:LYS:HE3	7:B:404:HOH:O	1.63	0.98
2:A:1:MET:HG2	2:A:65:ILE:HG13	1.52	0.91
3:B:1:MET:HG2	3:B:65:ILE:HG13	1.53	0.90
1:F:1:MET:HG2	1:F:65:ILE:HG13	1.53	0.90
4:C:1:MET:HG2	4:C:65:ILE:HG13	1.53	0.89
1:F:115:ASP:CB	7:F:294:HOH:O	2.23	0.86
2:A:43:ARG:HD3	7:B:402:HOH:O	1.88	0.72
3:B:43:ARG:HG2	7:B:389:HOH:O	1.89	0.71
4:C:26:MET:HG3	4:C:27:MET:N	2.08	0.68
2:A:1:MET:HG2	2:A:65:ILE:CG1	2.30	0.59
4:C:1:MET:HG2	4:C:65:ILE:CG1	2.29	0.59
3:B:1:MET:HE2	7:B:366:HOH:O	2.04	0.58
1:F:35:LYS:O	3:B:51:GLY:HA2	2.05	0.57
1:F:115:ASP:O	1:F:116:VAL:HG12	2.04	0.56
1:F:1:MET:HG2	1:F:65:ILE:CG1	2.29	0.56
3:B:1:MET:HG2	3:B:65:ILE:CG1	2.30	0.55
2:A:2:PRO:HA	2:A:63:GLU:O	2.08	0.54
3:B:2:PRO:HA	3:B:63:GLU:O	2.09	0.53
4:C:2:PRO:HA	4:C:63:GLU:O	2.08	0.53
2:A:133:LEU:O	2:A:137:ALA:N	2.41	0.53
1:F:2:PRO:HA	1:F:63:GLU:O	2.09	0.53
2:A:135:ALA:HB2	7:A:299:HOH:O	2.10	0.52
1:F:2:PRO:HD2	1:F:37:VAL:O	2.12	0.50



Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:C:91:ARG:NH1	4:C:93:GLU:OE1	2.46	0.49
3:B:2:PRO:HD2	3:B:37:VAL:O	2.13	0.49
2:A:51:GLY:HA2	3:B:35:LYS:O	2.14	0.47
1:F:51:GLY:HA2	2:A:35:LYS:O	2.14	0.47
2:A:2:PRO:HD2	2:A:37:VAL:O	2.15	0.47
4:C:133:LEU:O	4:C:137:HIS:N	2.46	0.46
2:A:26:MET:HG2	7:A:291:HOH:O	2.15	0.45
4:C:2:PRO:HD2	4:C:37:VAL:O	2.17	0.45
4:C:120:ARG:NH2	7:C:303:HOH:O	2.49	0.45
4:C:26:MET:CE	4:C:79:ASP:HB3	2.47	0.44
1:F:2:PRO:HG2	1:F:38:MET:HE2	1.99	0.44
1:F:90:VAL:HG23	1:F:95:ILE:HD11	2.00	0.43
4:C:36:GLU:HG2	7:C:374:HOH:O	2.19	0.43
4:C:29:LYS:C	4:C:29:LYS:HD2	2.41	0.41
3:B:2:PRO:HG2	3:B:38:MET:HE2	2.04	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	Perce	entiles
1	F	139/141~(99%)	135~(97%)	3~(2%)	1 (1%)	22	22
2	А	138/138~(100%)	135~(98%)	3~(2%)	0	100	100
3	В	138/140~(99%)	137~(99%)	1 (1%)	0	100	100
4	С	137/138~(99%)	134~(98%)	3~(2%)	0	100	100
All	All	552/557~(99%)	541 (98%)	10 (2%)	1 (0%)	47	55

All (1) Ramachandran outliers are listed below:



Mol	Chain	Res	Type
1	F	116	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	F	122/123~(99%)	120~(98%)	2(2%)	62	76	
2	А	119/117~(102%)	114 (96%)	5(4%)	30	38	
3	В	123/123~(100%)	117~(95%)	6~(5%)	25	31	
4	С	122/121~(101%)	115 (94%)	7~(6%)	20	24	
All	All	486/484~(100%)	466~(96%)	20~(4%)	32	39	

All (20) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	F	1	MET
1	F	53	ASP
2	А	1	MET
2	А	26	MET
2	А	53[A]	ASP
2	А	53[B]	ASP
2	А	133	LEU
3	В	1	MET
3	В	13	LYS
3	В	26	MET
3	В	29	LYS
3	В	53	ASP
3	В	115	ASP
4	С	1	MET
4	С	26	MET
4	C C	29	LYS
4	С	53	ASP
4	C	83	MET
4	С	137	HIS
4	С	138	HIS



Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
1	F	139	HIS

5.3.3 RNA (i)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

Of 3 ligands modelled in this entry, 2 are monoatomic - leaving 1 for Mogul analysis.

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

Mol	Type	Chain	Chain Res Link		Bond lengths			Bond angles		
Moi Type	Chain Res	nes	nes Link	Counts	RMSZ	# Z >2	Counts	RMSZ	# Z >2	
6	SO4	В	202	-	4,4,4	0.26	0	$6,\!6,\!6$	0.17	0

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

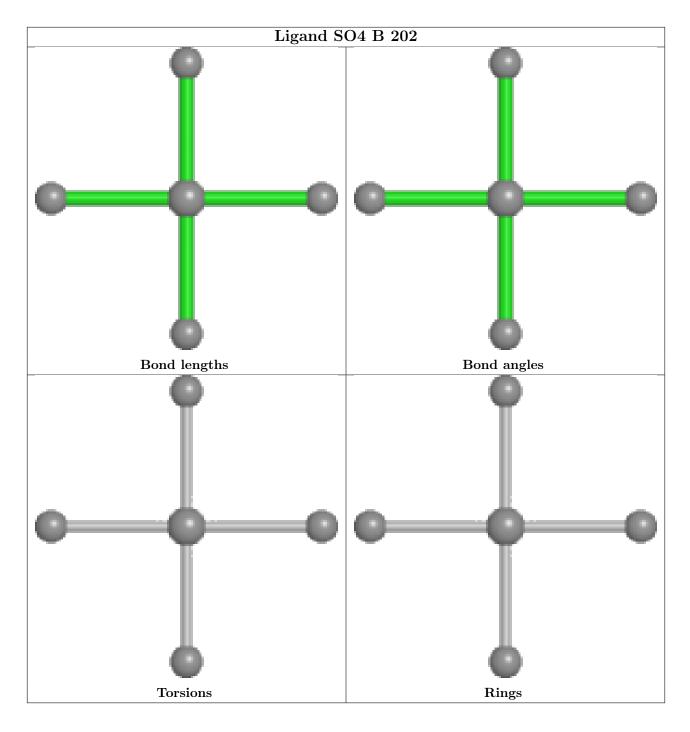
There are no ring outliers.

No monomer is involved in short contacts.



The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less then 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 (i)

6.1 Protein, DNA and RNA chains (i)

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^{th} 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	$OWAB(Å^2)$	$\mathbf{Q}{<}0.9$
1	F	141/141~(100%)	-0.35	4 (2%) 53 51	17, 31, 58, 130	0
2	А	138/138~(100%)	-0.23	6 (4%) 35 33	17, 26, 60, 110	0
3	В	140/140 (100%)	-0.43	1 (0%) 87 86	18, 29, 46, 62	0
4	С	138/138~(100%)	-0.37	4 (2%) 51 49	25, 36, 57, 88	0
All	All	557/557~(100%)	-0.34	15 (2%) 54 52	17, 31, 55, 130	0

All (15) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	F	141	ALA	7.6
2	А	137	ALA	5.3
1	F	140	HIS	4.5
2	А	135	ALA	3.8
2	А	136	HIS	3.8
2	А	132	TYR	3.7
2	А	138	ALA	3.5
4	С	138	HIS	3.1
4	С	1	MET	2.5
2	А	133	LEU	2.2
3	В	1	MET	2.2
4	С	135[A]	HIS	2.1
4	С	13	LYS	2.1
1	F	1	MET	2.0
1	F	136	HIS	2.0

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

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



6.3 Carbohydrates (i)

There are no monosaccharides in this entry.

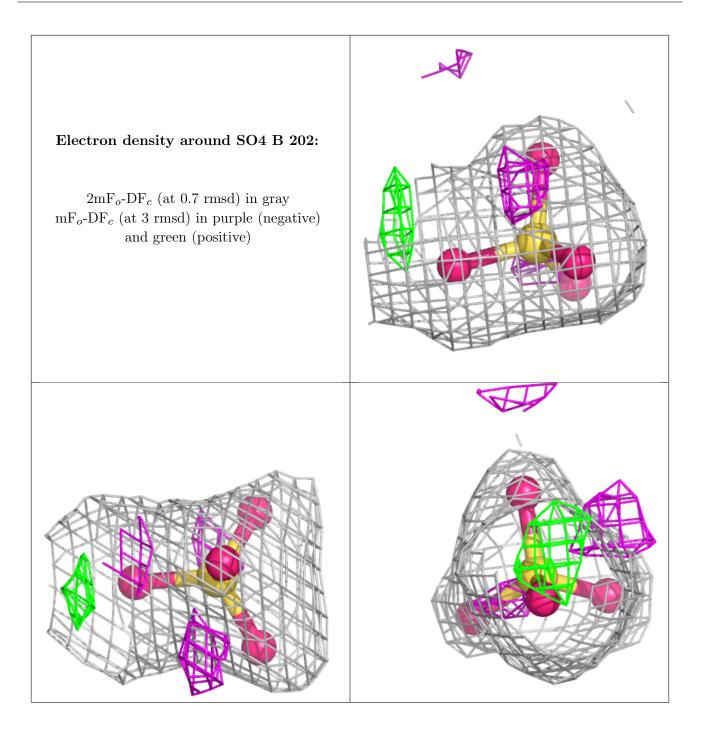
6.4 Ligands (i)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95^{th} 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.

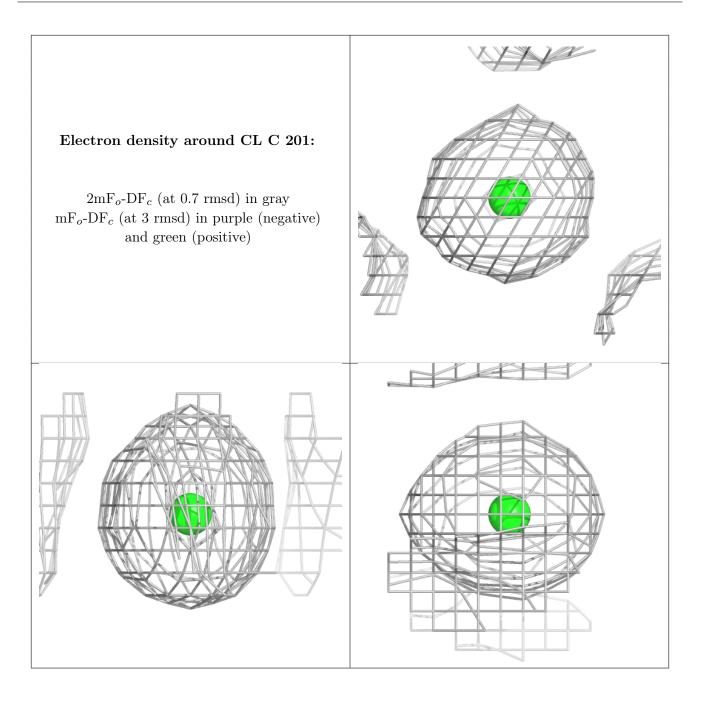
Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-factors}(\mathrm{\AA}^2)$	Q<0.9
6	SO4	В	202	5/5	0.74	0.19	$59,\!63,\!79,\!88$	0
5	CL	С	201	1/1	0.99	0.11	30,30,30,30	1
5	CL	В	201	1/1	0.99	0.09	24,24,24,24	0

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.

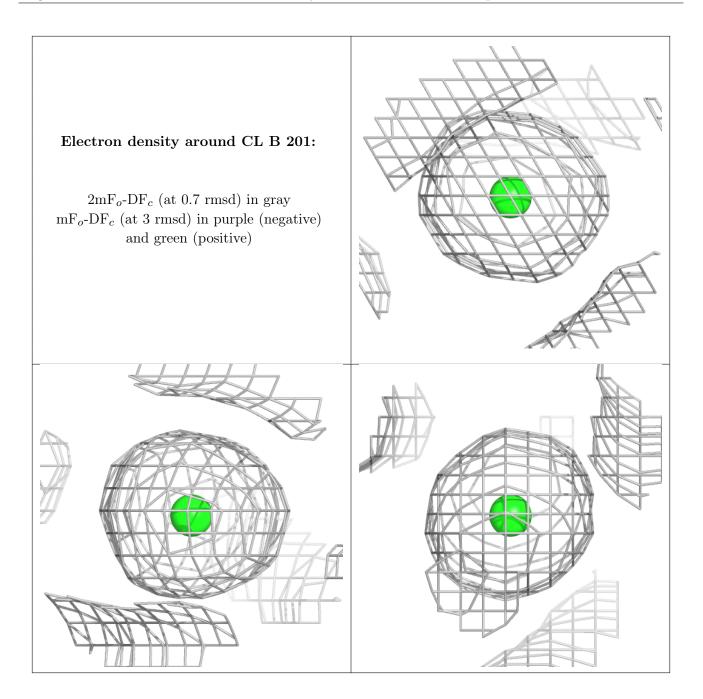












6.5 Other polymers (i)

There are no such residues in this entry.

