

Full wwPDB X-ray Structure Validation Report (i)

May 31, 2022 – 01:09 pm BST

K+
]

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 following versions of software and data (see references (1)) were used in the production of this report:

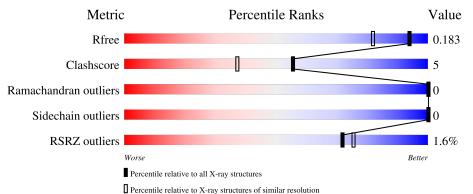
Xtriage (Phenix) EDS buster-report Percentile statistics Refmac CCP4	:::::::::::::::::::::::::::::::::::::::	 1.8.4, CSD as541be (2020) 1.13 2.28.1 1.1.7 (2018) 20191225.v01 (using entries in the PDB archive December 25th 2019) 5.8.0267 7.1.010 (Gargrove)
CCP4 Ideal geometry (proteins)		
Ideal geometry (DNA, RNA) Validation Pipeline (wwPDB-VP)	:	e ()
vandation i ipenne (wwi DD vi)	•	2.20.1

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 1.47 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	$\begin{array}{c} \textbf{Whole archive} \\ (\#\textbf{Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries,\ resolution\ range}({ m \AA}))$
R_{free}	130704	4690 (1.50-1.46)
Clashscore	141614	4955 (1.50-1.46)
Ramachandran outliers	138981	4846 (1.50-1.46)
Sidechain outliers	138945	4844 (1.50-1.46)
RSRZ outliers	127900	4614 (1.50-1.46)

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	А	96	93%	• •					
1	В	96	93%	5% •					

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:



Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
3	MPD	А	210	-	-	-	Х



700R

2 Entry composition (i)

There are 7 unique types of molecules in this entry. The entry contains 3619 atoms, of which 1864 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 Potassium channel protein.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	А	92	Total 1524	-	Н 776	N 110	0 134	S 1	0	6	0
1	В	94	Total 1606	-	Н 822		0 140	S 1	0	11	0

Chain	Residue	Modelled	Actual	Comment	Reference
A	18	MET	-	initiating methionine	UNP Q81HW2
А	66	CYS	ASP	engineered mutation	UNP Q81HW2
А	?	-	GLY	deletion	UNP Q81HW2
А	67	ASP	ASN	engineered mutation	UNP Q81HW2
А	68	ILE	PHE	engineered mutation	UNP Q81HW2
А	110	LEU	-	expression tag	UNP Q81HW2
А	111	VAL	-	expression tag	UNP Q81HW2
А	112	PRO	-	expression tag	UNP Q81HW2
А	113	ARG	-	expression tag	UNP Q81HW2
В	18	MET	-	initiating methionine	UNP Q81HW2
В	66	CYS	ASP	engineered mutation	UNP Q81HW2
В	?	-	GLY	deletion	UNP Q81HW2
В	67	ASP	ASN	engineered mutation	UNP Q81HW2
В	68	ILE	PHE	engineered mutation	UNP Q81HW2
В	110	LEU	-	expression tag	UNP Q81HW2
В	111	VAL	-	expression tag	UNP Q81HW2
В	112	PRO	-	expression tag	UNP Q81HW2
В	113	ARG	-	expression tag	UNP Q81HW2

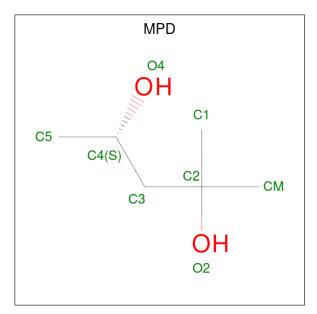
There are 18 discrepancies between the modelled and reference sequences:

• Molecule 2 is POTASSIUM ION (three-letter code: K) (formula: K) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	А	2	Total K 2 2	0	0

• Molecule 3 is (4S)-2-METHYL-2,4-PENTANEDIOL (three-letter code: MPD) (formula: $C_6H_{14}O_2$).



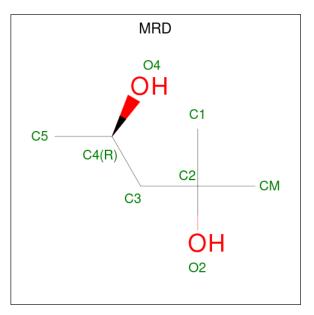
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	А	1	Total C H O	0	0
0	11	1	22 6 14 2	0	0
3	А	1	Total C H O	0	0
		1	22 6 14 2		
3	А	1	Total C H O	0	0
		1	22 6 14 2	· · · · · · · · · · · · · · · · · · ·	0
3	А	1	Total C H O	0	0
		-	22 6 14 2		
3	А	1	Total C H O	0	0
		-	22 6 14 2		
3	А	1	Total C H O	0	0
		-	22 6 14 2		
3	А	1	Total C H O	0	0
		-	22 6 14 2		<u> </u>
3	А	1	Total C H O	0	0
		-	22 6 14 2		
3	А	1	Total C H O	0	0
L		-	22 6 14 2	, in the second	Ŭ
3	А	1	Total C H O	0	0
		-	22 6 14 2		_



Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	А	1	Total C H O	0	0
			22 6 14 2 Total C H O		
3	В	1	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0	0
3	В	1	Total C H O	0	0
		-	22 6 14 2		Ŭ
3	В	1	$\begin{array}{cccc} \text{Total} & \text{C} & \text{H} & \text{O} \\ 22 & 6 & 14 & 2 \end{array}$	0	0
3	В	1	Total C H O 22 6 14 2	0	0
3	В	1	Total C H O	0	0
		-	22 6 14 2		Ű
3	В	1	Total C H O 22 6 14 2	0	0

• Molecule 4 is (4R)-2-METHYLPENTANE-2,4-DIOL (three-letter code: MRD) (formula: $C_6H_{14}O_2$).



Mol	Chain	Residues	Α	tor	ns		ZeroOcc	AltConf
4	А	1	Total 22				0	0
4	А	1	Total 22		H 14	0 2	0	0

• Molecule 5 is SODIUM ION (three-letter code: NA) (formula: Na) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	А	2	Total Na 2 2	0	0
5	В	3	Total Na 3 3	0	0

• Molecule 6 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	А	1	Total Cl 1 1	0	0
6	В	1	Total Cl 1 1	0	0

• Molecule 7 is water.

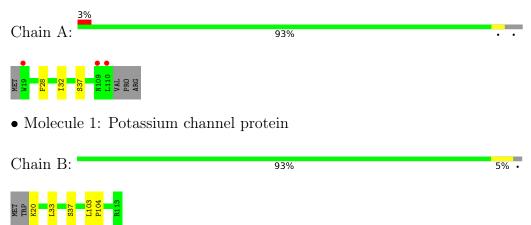
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	А	30	Total O 31 31	0	1
7	В	29	Total O 31 31	0	2



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: Potassium channel protein





4 Data and refinement statistics (i)

Property	Value	Source
Space group	C 2 2 21	Depositor
Cell constants	81.25Å 88.49Å 49.66Å	Depositor
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	40.62 - 1.47	Depositor
Resolution (A)	44.25 - 1.47	EDS
% Data completeness	99.5 (40.62-1.47)	Depositor
(in resolution range)	99.5 (44.25-1.47)	EDS
R _{merge}	0.10	Depositor
R _{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$1.14 (at 1.47 \text{\AA})$	Xtriage
Refinement program	PHENIX 1.19_4092	Depositor
D D.	0.147 , 0.183	Depositor
R, R_{free}	0.146 , 0.183	DCC
R_{free} test set	1535 reflections $(5.00%)$	wwPDB-VP
Wilson B-factor $(Å^2)$	20.1	Xtriage
Anisotropy	0.261	Xtriage
Bulk solvent $k_{sol}(e/Å^3), B_{sol}(Å^2)$	(Not available), (Not available)	EDS
L-test for twinning ²	$ L > = 0.50, < L^2 > = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	3619	wwPDB-VP
Average B, all atoms $(Å^2)$	32.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 11.23% 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: MPD, K, NA, CL, MRD

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		lengths	Bond angles		
	Unam	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	А	0.32	0/776	0.52	0/1059	
1	В	0.32	0/828	0.54	0/1130	
All	All	0.32	0/1604	0.53	0/2189	

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	А	748	776	761	4	0
1	В	784	822	790	4	0
2	А	2	0	0	0	0
3	А	88	154	154	13	0
3	В	48	84	84	2	0
4	А	16	28	28	0	0
5	А	2	0	0	0	0
5	В	3	0	0	0	0
6	А	1	0	0	0	0
6	В	1	0	0	0	0
7	А	31	0	0	0	0



Contr	Continued from prettous page											
Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes						
7	В	31	0	0	1	1						
All	All	1755	1864	1817	18	1						

Continued from previous page...

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 5.

All (18) 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:B:33:LEU:HD22	3:B:204:MPD:H52	1.73	0.69
1:A:32[A]:ILE:HD12	3:A:209:MPD:HM3	1.76	0.67
3:A:210:MPD:HM1	3:A:210:MPD:H53	1.79	0.64
3:A:206:MPD:H11	3:A:206:MPD:O4	2.00	0.61
1:B:20:LYS:N	7:B:301:HOH:O	2.36	0.58
1:B:37[B]:SER:OG	3:B:201:MPD:H51	2.06	0.55
3:A:209:MPD:HM3	3:A:209:MPD:H53	1.88	0.55
1:A:37[C]:SER:OG	3:A:213:MPD:H53	2.10	0.52
3:A:207:MPD:HM1	3:A:207:MPD:H52	1.91	0.52
3:A:210:MPD:HM1	3:A:210:MPD:C5	2.39	0.52
3:A:204:MPD:O4	3:A:204:MPD:HM3	2.10	0.51
1:A:32[A]:ILE:HD12	3:A:209:MPD:CM	2.43	0.46
3:A:209:MPD:H53	3:A:209:MPD:CM	2.45	0.45
3:A:209:MPD:H11	3:A:209:MPD:O4	2.17	0.45
1:A:28:PHE:O	1:A:32[B]:ILE:HG22	2.16	0.45
3:A:206:MPD:O4	3:A:206:MPD:C1	2.67	0.41
1:B:103:LEU:HB3	1:B:104:PRO:HD3	2.03	0.40
3:A:211:MPD:O4	3:A:211:MPD:H11	2.20	0.40

All (1) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:B:329:HOH:O	7:B:329:HOH:O[4_564]	2.16	0.04



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	А	96/96~(100%)	94~(98%)	2(2%)	0	100	100
1	В	103/96~(107%)	103 (100%)	0	0	100	100
All	All	199/192~(104%)	197~(99%)	2(1%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains (i)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	5
1	А	87/87~(100%)	87 (100%)	0	100 100	
1	В	94/87~(108%)	94 (100%)	0	100 100	
All	All	181/174~(104%)	181 (100%)	0	100 100	

There are no protein residues with a non-rotameric sidechain to report.

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

5.3.3 RNA (i)

There are no RNA molecules in this entry.



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

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

5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

Of 28 ligands modelled in this entry, 9 are monoatomic - leaving 19 for Mogul analysis.

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

Mol	Type	Chain	Res	Link	B	ond leng	gths	В	ond ang	gles
	Type	Ullaili	nes		Counts	RMSZ	# Z >2	Counts	RMSZ	# Z >2
3	MPD	А	203	-	7,7,7	1.06	0	$9,\!10,\!10$	0.68	0
3	MPD	А	213	-	7,7,7	1.00	0	$9,\!10,\!10$	0.68	0
3	MPD	В	201	-	7,7,7	1.02	1 (14%)	$9,\!10,\!10$	0.85	0
4	MRD	А	214	-	7,7,7	0.77	0	9,10,10	0.69	0
3	MPD	В	203	-	7,7,7	0.96	0	9,10,10	0.59	0
3	MPD	А	206	-	7,7,7	1.24	1 (14%)	$9,\!10,\!10$	0.73	0
3	MPD	В	204	-	7,7,7	0.94	0	9,10,10	0.45	0
3	MPD	А	211	-	7,7,7	1.16	0	9,10,10	0.69	0
3	MPD	А	205	-	7,7,7	0.92	1 (14%)	$9,\!10,\!10$	0.70	0
3	MPD	А	204	-	7,7,7	1.02	0	9,10,10	0.64	0
4	MRD	А	215	-	7,7,7	0.68	0	9,10,10	0.59	0
3	MPD	А	210	-	7,7,7	0.85	0	$9,\!10,\!10$	0.67	0
3	MPD	В	205	-	7,7,7	1.01	1 (14%)	$9,\!10,\!10$	0.64	0
3	MPD	В	206	-	7,7,7	1.02	0	9,10,10	0.61	0
3	MPD	А	209	-	7,7,7	1.10	0	$9,\!10,\!10$	0.53	0
3	MPD	А	212	-	7,7,7	0.89	1 (14%)	9,10,10	0.69	0
3	MPD	А	207	-	7,7,7	0.99	1 (14%)	9,10,10	0.70	0
3	MPD	А	208	-	7,7,7	1.04	1 (14%)	9,10,10	0.57	0
3	MPD	В	202	-	7,7,7	0.91	0	$9,\!10,\!10$	0.92	0

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral



Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	MPD	А	203	-	-	2/5/5/5	-
3	MPD	А	213	-	-	0/5/5/5	-
3	MPD	В	201	-	-	0/5/5/5	-
4	MRD	А	214	-	-	0/5/5/5	-
3	MPD	В	203	-	-	2/5/5/5	-
3	MPD	А	206	-	-	0/5/5/5	-
3	MPD	В	204	-	-	0/5/5/5	-
3	MPD	А	211	-	-	2/5/5/5	-
3	MPD	А	205	-	-	0/5/5/5	-
3	MPD	А	204	-	-	2/5/5/5	-
4	MRD	А	215	-	_	1/5/5/5	_
3	MPD	А	210	-	-	1/5/5/5	-
3	MPD	В	205	-	-	2/5/5/5	-
3	MPD	В	206	-	-	1/5/5/5	-
3	MPD	А	209	-	-	0/5/5/5	-
3	MPD	А	212	-	-	3/5/5/5	-
3	MPD	А	207	-	-	4/5/5/5	-
3	MPD	А	208	-	-	0/5/5/5	-
3	MPD	В	202	-	-	3/5/5/5	-

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.

All (7) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	В	205	MPD	O2-C2	-2.27	1.38	1.44
3	А	207	MPD	O2-C2	-2.22	1.39	1.44
3	А	206	MPD	O2-C2	-2.21	1.39	1.44
3	В	201	MPD	O2-C2	-2.09	1.39	1.44
3	А	212	MPD	O2-C2	-2.07	1.39	1.44
3	А	208	MPD	O2-C2	-2.05	1.39	1.44
3	А	205	MPD	O2-C2	-2.02	1.39	1.44

There are no bond angle outliers.

There are no chirality outliers.

All (23) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	А	207	MPD	C2-C3-C4-O4



	nued fron	-	10	
Mol	Chain	Res	Type	Atoms
3	А	212	MPD	C2-C3-C4-O4
3	В	205	MPD	C2-C3-C4-O4
3	А	212	MPD	O2-C2-C3-C4
4	А	215	MRD	O2-C2-C3-C4
3	А	203	MPD	C2-C3-C4-C5
3	А	204	MPD	C2-C3-C4-C5
3	А	211	MPD	C2-C3-C4-C5
3	А	212	MPD	C2-C3-C4-C5
3	А	204	MPD	C2-C3-C4-O4
3	А	211	MPD	C2-C3-C4-O4
3	А	207	MPD	C1-C2-C3-C4
3	А	207	MPD	CM-C2-C3-C4
3	В	203	MPD	CM-C2-C3-C4
3	А	207	MPD	O2-C2-C3-C4
3	В	202	MPD	O2-C2-C3-C4
3	В	203	MPD	O2-C2-C3-C4
3	А	210	MPD	C2-C3-C4-C5
3	В	202	MPD	C2-C3-C4-C5
3	В	205	MPD	C2-C3-C4-C5
3	В	206	MPD	C2-C3-C4-C5
3	А	203	MPD	C2-C3-C4-O4
3	В	202	MPD	C2-C3-C4-O4

Continued from previous page...

There are no ring outliers.

9 monomers are involved in 15 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	А	213	MPD	1	0
3	В	201	MPD	1	0
3	А	206	MPD	2	0
3	В	204	MPD	1	0
3	А	211	MPD	1	0
3	А	204	MPD	1	0
3	А	210	MPD	2	0
3	А	209	MPD	5	0
3	А	207	MPD	1	0

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	$\mathbf{OWAB}(\mathbf{A}^2)$	$Q{<}0.9$
1	А	92/96~(95%)	-0.20	3 (3%) 46 50	14, 21, 40, 59	0
1	В	94/96~(97%)	-0.40	0 100 100	15, 22, 41, 50	0
All	All	186/192~(96%)	-0.30	3 (1%) 72 75	14, 22, 41, 59	0

All (3) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	А	19	TRP	6.3
1	А	110	LEU	4.3
1	А	109	ASN	3.0

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
3	MPD	А	211	8/8	0.45	0.28	$71,\!86,\!90,\!90$	0
3	MPD	В	206	8/8	0.46	0.25	72,86,87,89	0

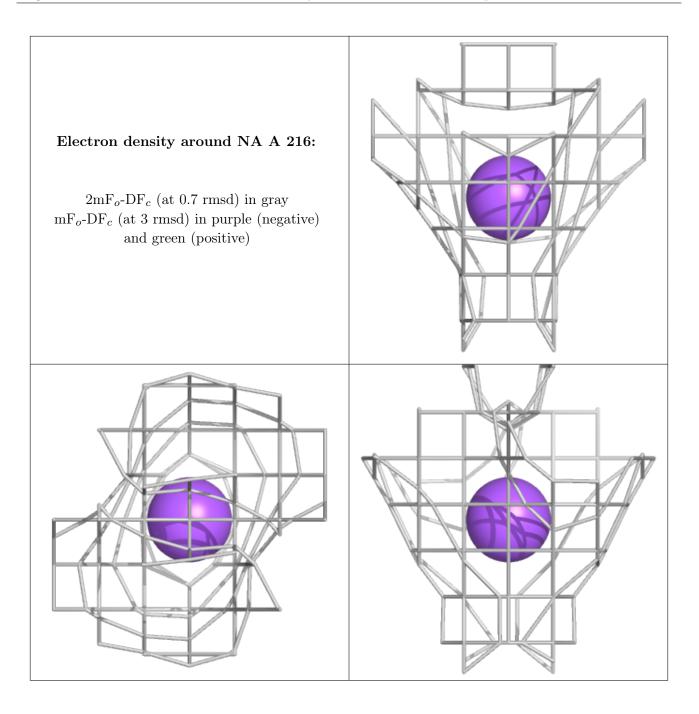


Continued from previous page								
Mol	Type	Chain	\mathbf{Res}	Atoms	RSCC	RSR	$\operatorname{B-factors}(\operatorname{\AA}^2)$	$Q{<}0.9$
3	MPD	В	205	8/8	0.61	0.25	$64,\!77,\!81,\!82$	0
3	MPD	А	209	8/8	0.66	0.27	67,81,82,84	0
3	MPD	А	212	8/8	0.67	0.39	54,65,67,69	22
3	MPD	А	213	8/8	0.67	0.24	72,87,88,88	0
3	MPD	А	203	8/8	0.68	0.24	58,70,72,72	0
3	MPD	А	210	8/8	0.71	0.46	76,92,94,94	0
3	MPD	А	206	8/8	0.73	0.27	62,74,83,83	0
3	MPD	А	207	8/8	0.82	0.44	63,77,80,80	0
5	NA	А	216	1/1	0.82	0.17	84,84,84,84	1
3	MPD	А	208	8/8	0.83	0.20	64,77,80,80	0
3	MPD	В	202	8/8	0.83	0.20	49,59,62,62	0
3	MPD	В	203	8/8	0.83	0.20	69,83,85,85	0
3	MPD	В	204	8/8	0.84	0.45	68,82,83,83	0
3	MPD	А	204	8/8	0.84	0.26	71,86,87,87	0
3	MPD	В	201	8/8	0.86	0.21	34,41,47,47	0
4	MRD	А	215	8/8	0.87	0.13	48,57,61,62	0
3	MPD	А	205	8/8	0.90	0.24	57,70,72,72	0
5	NA	А	217	1/1	0.91	0.15	71,71,71,71	1
5	NA	В	207	1/1	0.92	0.22	52,52,52,52	1
4	MRD	А	214	8/8	0.93	0.11	21,27,31,31	0
6	CL	В	210	1/1	0.94	0.10	44,44,44,44	0
5	NA	В	208	1/1	0.96	0.10	42,42,42,42	1
6	CL	А	218	1/1	0.98	0.16	39,39,39,39	0
5	NA	В	209	1/1	0.98	0.08	35,35,35,35	1
2	Κ	А	201	1/1	1.00	0.15	$17,\!17,\!17,\!17$	1
2	Κ	А	202	1/1	1.00	0.17	$15,\!15,\!15,\!15$	1

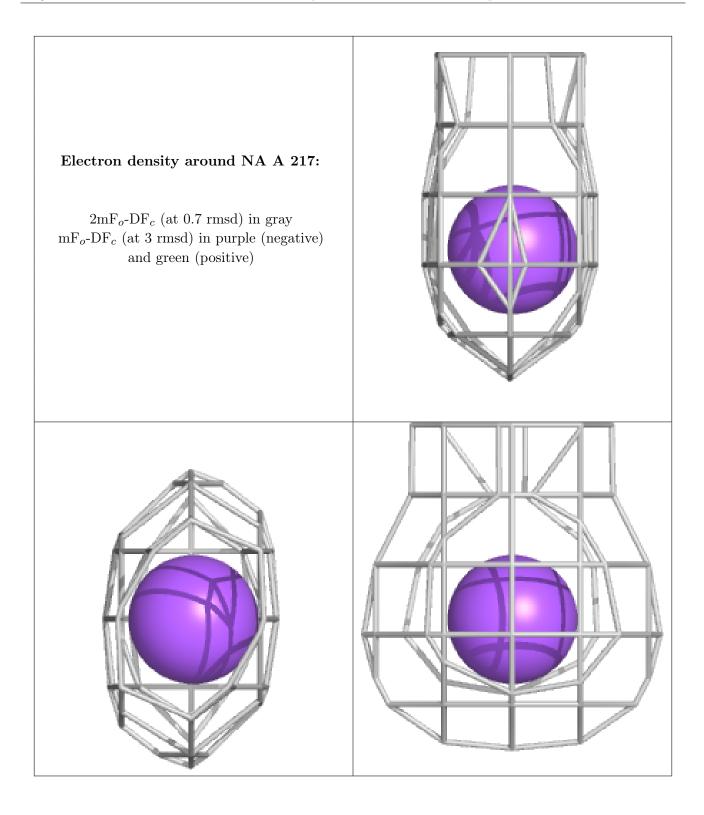
Continued from previous page...

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.

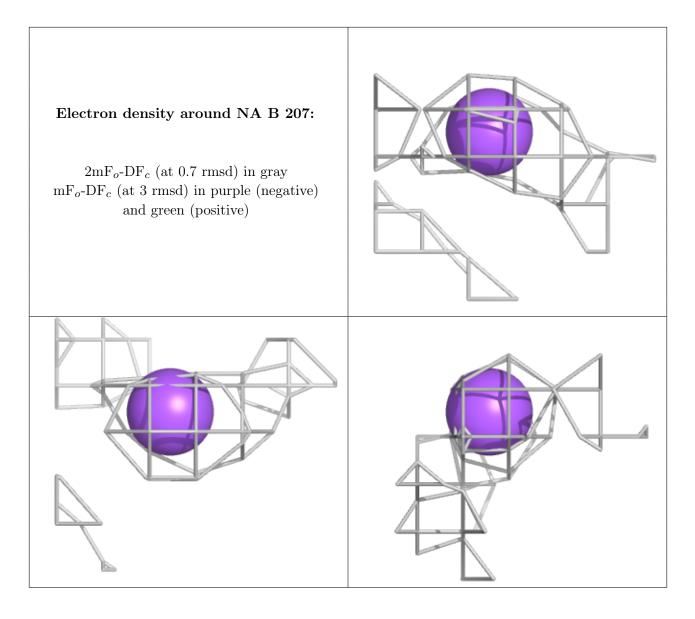




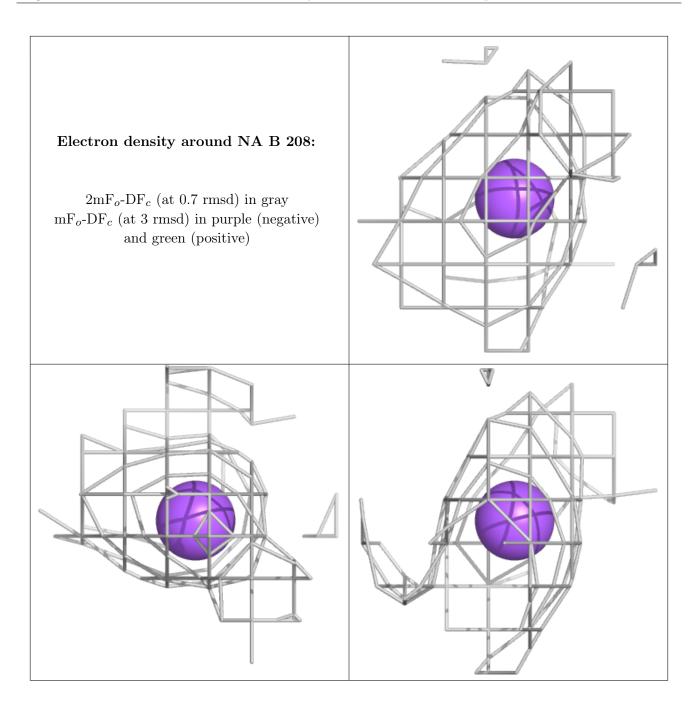




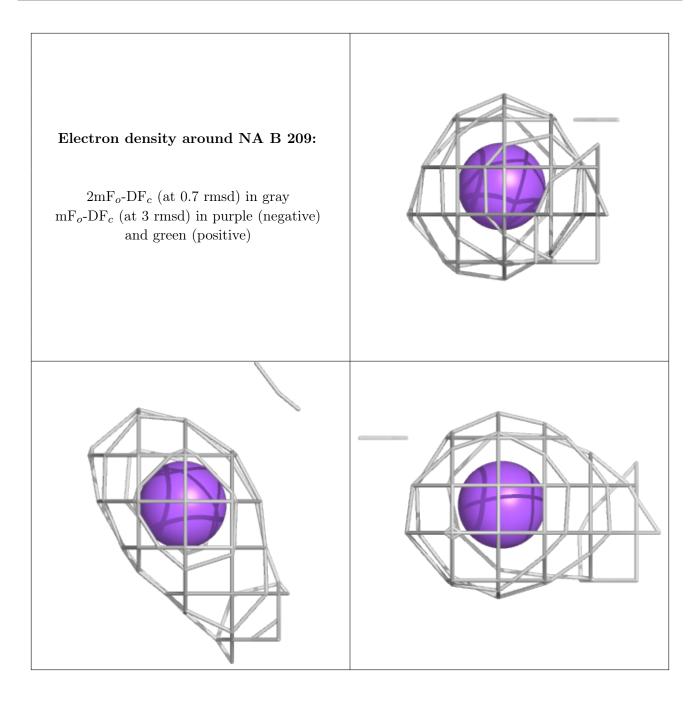




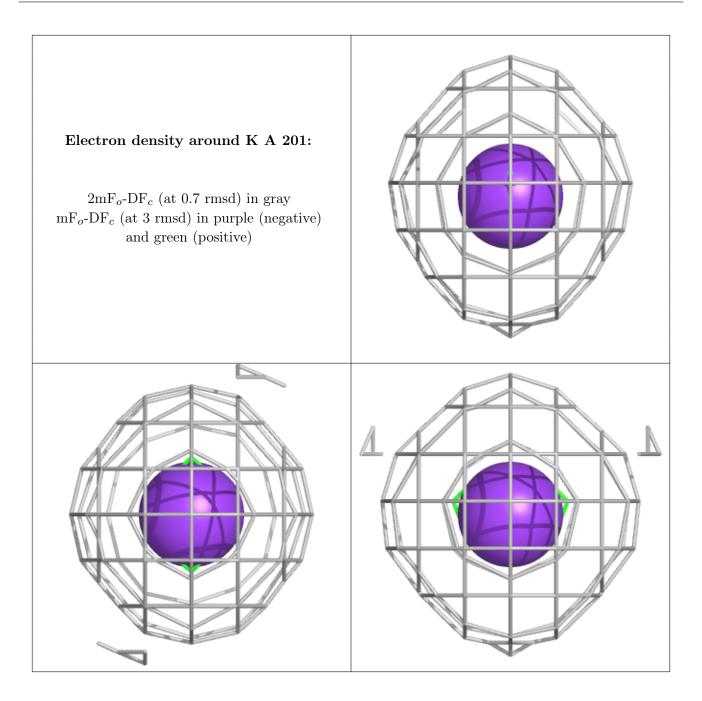




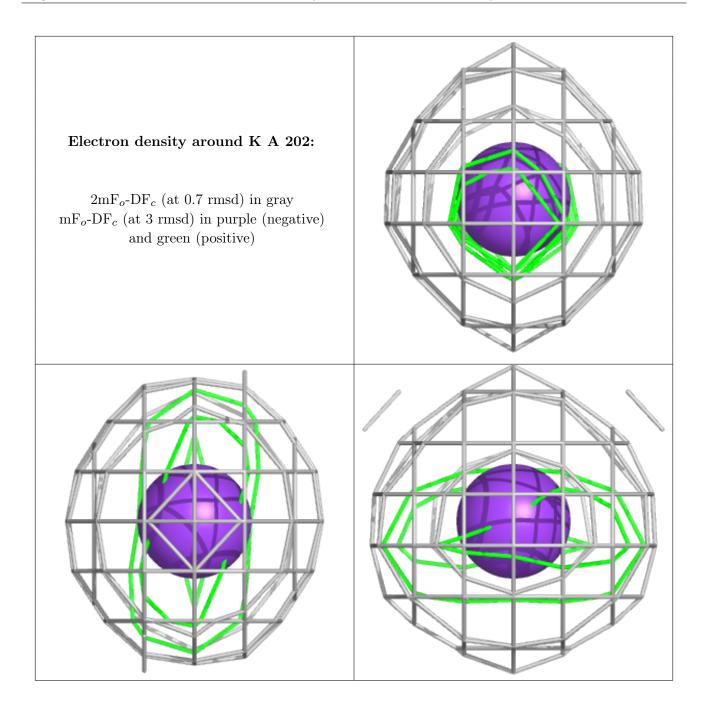












6.5 Other polymers (i)

There are no such residues in this entry.

