

wwPDB X-ray Structure Validation Summary Report (i)

Aug 10, 2020 – 01:44 AM BST

PDB ID : 5LU5

Title : A quantum half-site enzyme

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Deposited on : 2016-09-08

Resolution : 1.55 Å(reported)

This is a wwPDB X-ray Structure Validation Summary 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:

MolProbity: 4.02b-467

Mogul : 1.8.5 (274361), CSD as541be (2020)

Xtriage (Phenix) : 1.13

EDS: 2.13.1

buster-report : 1.1.7 (2018)

Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)

Refmac: 5.8.0158

CCP4: 7.0.044 (Gargrove)

Ideal geometry (proteins) : Engh & Huber (2001) Ideal geometry (DNA, RNA) : Parkinson et al. (1996)

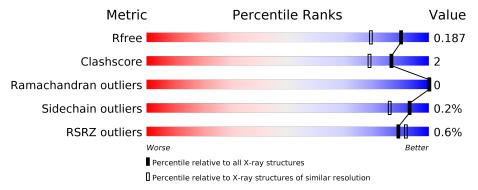
Validation Pipeline (wwPDB-VP) : 2.13.1

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 1.55 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	$\begin{array}{c} \textbf{Whole archive} \\ (\#\text{Entries}) \end{array}$	$\begin{array}{c} {\rm Similar \; resolution} \\ (\#{\rm Entries, \; resolution \; range(\AA)}) \end{array}$
R_{free}	130704	1483 (1.56-1.56)
Clashscore	141614	1529 (1.56-1.56)
Ramachandran outliers	138981	1498 (1.56-1.56)
Sidechain outliers	138945	1495 (1.56-1.56)
RSRZ outliers	127900	1465 (1.56-1.56)

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 on 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	A	197	95%	
1	В	197	96%	••
1	С	197	95%	• •
1	D	197	2%	• •



2 Entry composition (i)

There are 10 unique types of molecules in this entry. The entry contains 6799 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 Phosphoheptose isomerase.

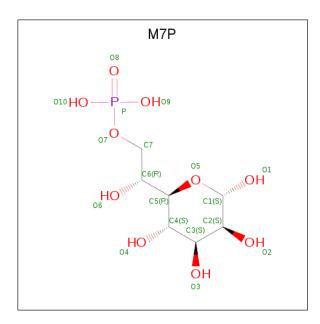
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace			
1	Λ	193	Total	С	N	О	S	0	π	0	
1	A	190	1456	912	260	276	8	U	Б	0	
1	В	193	Total	Total C N O S	3	0					
1	Б	190	1445	903	256	278	8	U	J.	U	
1	С	193	Total	С	N	О	S	0	1	0	
1		190	1426	893	253	272	8	0	1	U	
1	D	194	Total	С	N	О	S	0	6	0	
1	ש	194	1468	921	260	279	8	U	6	U	

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	34	ARG	GLN	conflict	UNP A0A095TT41
A	68	GLN	GLU	conflict	UNP A0A095TT41
В	34	ARG	GLN	conflict	UNP A0A095TT41
В	68	GLN	GLU	conflict	UNP A0A095TT41
С	34	ARG	GLN	conflict	UNP A0A095TT41
С	68	GLN	GLU	conflict	UNP A0A095TT41
D	34	ARG	GLN	conflict	UNP A0A095TT41
D	68	GLN	GLU	conflict	UNP A0A095TT41

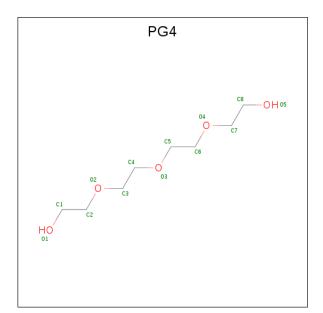
• Molecule 2 is 7-O-phosphono-D-glycero-alpha-D-manno-heptopyranose (three-letter code: M7P) (formula: C₇H₁₅O₁₀P).





Mol	Chain	Residues	A	tor	ns		ZeroOcc	AltConf
2	Λ.	-1	Total	С	О	Р	0	0
	A	1	18	7	10	1		
2	В	1	Total	С	О	Р	0	0
	Б	1	18	7	10	1		
2	С	-1	Total	С	О	Р	0	0
		1	18	7	10	1		
9	D	1	Total	С	О	Р	0	0
	ש	1	18	7	10	1	U	U

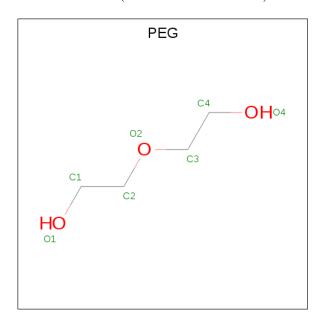
 \bullet Molecule 3 is TETRAETHYLENE GLYCOL (three-letter code: PG4) (formula: $\mathrm{C_8H_{18}O_5}).$





Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total C O 13 8 5	0	0
3	В	1	Total C O 13 8 5	0	0
3	D	1	Total C O 13 8 5	0	0
3	D	1	Total C O 13 8 5	0	0

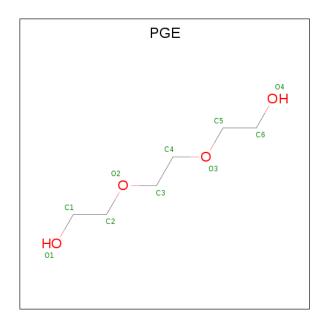
• Molecule 4 is DI(HYDROXYETHYL)ETHER (three-letter code: PEG) (formula: $C_4H_{10}O_3$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	1	Total C O 7 4 3	0	0

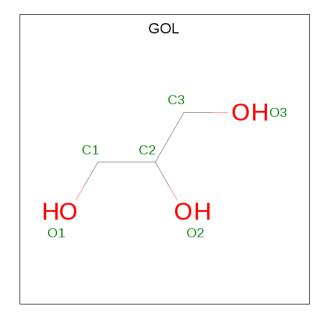
 \bullet Molecule 5 is TRIETHYLENE GLYCOL (three-letter code: PGE) (formula: $\mathrm{C_6H_{14}O_4}).$





Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	1	Total C O 10 6 4	0	0
5	С	1	Total C O 10 6 4	0	0
5	D	1	Total C O 10 6 4	0	0

 \bullet Molecule 6 is GLYCEROL (three-letter code: GOL) (formula: $\mathrm{C_3H_8O_3}).$



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	В	1	Total C O 6 3 3	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	В	1	Total C O 6 3 3	0	0
6	С	1	Total C O 6 3 3	0	0
6	С	1	Total C O 6 3 3	0	0

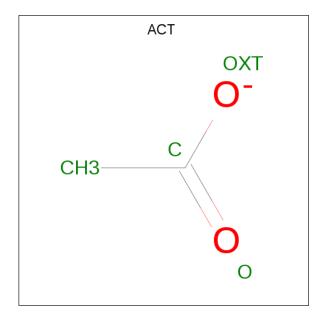
• Molecule 7 is SODIUM ION (three-letter code: NA) (formula: Na).

Mol	Chain	Residues	${f Atoms}$	ZeroOcc	AltConf
7	С	1	Total Na 1 1	0	0

• Molecule 8 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
8	D	1	Total Mg 1 1	0	0

• Molecule 9 is ACETATE ION (three-letter code: ACT) (formula: $C_2H_3O_2$).



Mol	Chain	Residues	Atoms		ZeroOcc	AltConf	
9	D	1	Total 4	C 2	O 2	0	0

• Molecule 10 is water.



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
10	A	216	Total O 216 216	0	0
10	В	218	Total O 218 218	0	0
10	С	191	Total O 191 191	0	0
10	D	188	Total O 188 188	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: Phosphoheptose isomerase





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants	73.20Å 83.81Å 126.78Å	Depositor
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	63.39 - 1.55	Depositor
Resolution (A)	63.39 - 1.55	EDS
% Data completeness	99.2 (63.39-1.55)	Depositor
(in resolution range)	99.2 (63.39-1.55)	EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	2.41 (at 1.55Å)	Xtriage
Refinement program	PHENIX 1.9_1692	Depositor
D D.	0.161 , 0.187	Depositor
R, R_{free}	0.163 , 0.187	DCC
R_{free} test set	5606 reflections $(4.97%)$	wwPDB-VP
Wilson B-factor (Å ²)	15.8	Xtriage
Anisotropy	0.389	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.34 , 49.0	EDS
L-test for twinning ²	$ < L >=0.48, < L^2>=0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	6799	wwPDB-VP
Average B, all atoms (Å ²)	20.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 4.28% of the height of the origin peak. No significant pseudotranslation is detected.

²Theoretical values of <|L|>, $< L^2>$ 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: GOL, MG, M7P, NA, PG4, PGE, ACT, PEG

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
MIOI	Chain	RMSZ	# Z >5	RMSZ	# Z > 5
1	A	0.31	0/1487	0.48	0/2008
1	В	0.31	0/1464	0.49	0/1978
1	С	0.32	0/1445	0.49	0/1953
1	D	0.33	0/1502	0.50	0/2025
All	All	0.32	0/5898	0.49	0/7964

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	$\mathbf{H}(\mathbf{model})$	$\mathbf{H}(\mathbf{added})$	Clashes	Symm-Clashes
1	A	1456	0	1481	5	0
1	В	1445	0	1451	3	0
1	С	1426	0	1436	7	0
1	D	1468	0	1502	10	0
2	A	18	0	13	0	0
2	В	18	0	13	0	0
2	С	18	0	13	0	0
2	D	18	0	13	0	0
3	A	13	0	18	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	В	13	0	18	0	0
3	D	26	0	36	1	0
4	A	7	0	10	1	0
5	A	10	0	14	2	0
5	С	10	0	14	2	0
5	D	10	0	14	3	0
6	В	12	0	16	0	0
6	С	12	0	16	1	0
7	С	1	0	0	0	0
8	D	1	0	0	0	0
9	D	4	0	3	0	0
10	A	216	0	0	3	0
10	В	218	0	0	4	0
10	С	191	0	0	3	0
10	D	188	0	0	3	0
All	All	6799	0	6081	25	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 2.

The worst 5 of 25 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	$egin{array}{l} ext{Interatomic} \ ext{distance} \ (ext{Å}) \end{array}$	$egin{array}{c} ext{Clash} \ ext{overlap } (ext{Å}) \end{array}$
10:A:301:HOH:O	1:D:68[A]:GLN:NE2	2.07	0.87
1:A:175:GLN:OE1	10:A:301:HOH:O	1.95	0.85
1:C:35:LYS:HZ2	5:C:202:PGE:H3	1.45	0.82
1:D:196:LYS:NZ	10:D:302:HOH:O	2.16	0.79
10:B:301:HOH:O	1:C:64:HIS:NE2	2.18	0.76

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	$_{ m ntiles}$
1	A	$196/197 \; (100\%)$	193 (98%)	3 (2%)	0	100	100
1	В	$194/197\ (98\%)$	191 (98%)	3 (2%)	0	100	100
1	C	$192/197\ (98\%)$	189 (98%)	3 (2%)	0	100	100
1	D	198/197~(100%)	194 (98%)	4 (2%)	0	100	100
All	All	780/788~(99%)	767 (98%)	13 (2%)	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	Rotameric Outliers		Percentiles		
1	A	151/150 (101%)	150 (99%)	1 (1%)	84	69		
1	В	149/150 (99%)	149 (100%)	0	100	100		
1	$^{\mathrm{C}}$	$146/150 \; (97\%)$	146 (100%)	0	100	100		
1	D	$153/150 \; (102\%)$	153 (100%)	0	100	100		
All	All	599/600 (100%)	598 (100%)	1 (0%)	93	86		

All (1) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	158	GLU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	${f Res}$	\mathbf{Type}
1	A	17	GLN
1	D	191	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 19 ligands modelled in this entry, 2 are monoatomic - leaving 17 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).

N / L 1	TD.	C1 '	D	т. 1	Во	ond leng	ths	В	ond ang	les
Mol		m Res	tes Link	Counts	RMSZ	# Z >2	Counts	RMSZ	# Z >2	
5	PGE	D	204	-	9,9,9	0.45	0	8,8,8	0.38	0
9	ACT	D	206	7	1,3,3	0.35	0	0,3,3	0.00	-
3	PG4	D	202	8	12,12,12	0.44	0	11,11,11	0.37	0
6	GOL	С	203	-	5,5,5	0.23	0	5,5,5	0.18	0
2	M7P	С	201	-	18,18,18	0.61	0	26,27,27	0.65	0
6	GOL	С	204	-	5,5,5	0.31	0	5,5,5	0.22	0
2	M7P	A	201	-	18,18,18	0.58	0	26,27,27	0.57	0
6	GOL	В	203	-	5,5,5	0.27	0	5,5,5	0.20	0
2	M7P	D	201	-	18,18,18	0.54	0	26,27,27	0.61	0
3	PG4	A	202	_	12,12,12	0.46	0	11,11,11	0.29	0
2	M7P	В	201	-	18,18,18	0.56	0	26,27,27	0.58	0
3	PG4	D	203	7	12,12,12	0.45	0	11,11,11	0.31	0
5	PGE	A	204	-	9,9,9	0.46	0	8,8,8	0.40	0
6	GOL	В	202	-	5,5,5	0.25	0	5,5,5	0.25	0
3	PG4	В	204	-	12,12,12	0.46	0	11,11,11	0.30	0
4	PEG	A	203	-	6,6,6	0.44	0	5,5,5	0.31	0
5	PGE	С	202	-	9,9,9	0.46	0	8,8,8	0.23	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
5	PGE	D	204	_	-	3/7/7/7	-
3	PG4	D	202	8	-	1/10/10/10	-
6	GOL	С	203	_	-	2/4/4/4	-
2	M7P	С	201	_	-	0/10/30/30	0/1/1/1
6	GOL	С	204	_	-	0/4/4/4	-
2	M7P	A	201	_	_	0/10/30/30	0/1/1/1
6	GOL	В	203	_	-	2/4/4/4	-
2	M7P	D	201	_	-	1/10/30/30	0/1/1/1
3	PG4	A	202	_	-	0/10/10/10	-
2	M7P	В	201	_	-	0/10/30/30	0/1/1/1
3	PG4	D	203	7	-	3/10/10/10	-
5	PGE	A	204	_	-	4/7/7/7	-
6	GOL	В	202	_	-	0/4/4/4	-
3	PG4	В	204	-	-	1/10/10/10	-
4	PEG	A	203	_	_	1/4/4/4	_
5	PGE	С	202	_	-	5/7/7/7	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

5 of 23 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	A	204	PGE	C6-C5-O3-C4
5	A	204	PGE	O2-C3-C4-O3
6	В	203	GOL	C1-C2-C3-O3
5	A	204	PGE	O3-C5-C6-O4
6	В	203	GOL	O2-C2-C3-O3

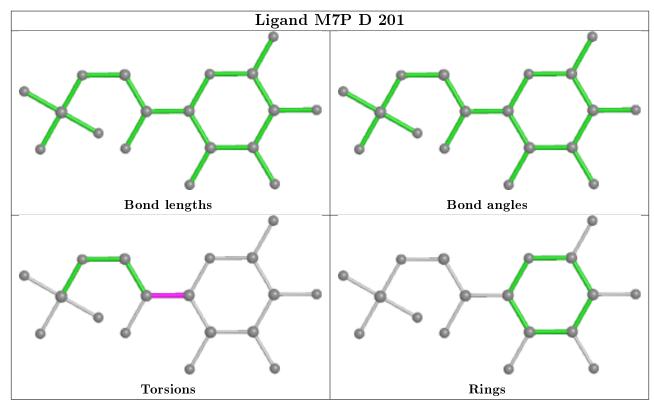
There are no ring outliers.

6 monomers are involved in 10 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	D	204	PGE	3	0
3	D	202	PG4	1	0
6	С	203	GOL	1	0
5	A	204	PGE	2	0
4	A	203	PEG	1	0
5	С	202	PGE	2	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 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 $>$	$\# \mathrm{RSRZ}{>}2$	$\mathbf{OWAB}(\mathrm{\AA}^2)$	Q < 0.9
1	A	193/197 (97%)	-0.63	0 100 100	12, 16, 27, 41	0
1	В	193/197 (97%)	-0.65	2 (1%) 82 86	12, 16, 27, 44	0
1	С	193/197 (97%)	-0.50	0 100 100	11, 17, 31, 54	0
1	D	194/197 (98%)	-0.64	3 (1%) 73 78	12, 16, 28, 48	0
All	All	773/788 (98%)	-0.60	5 (0%) 89 92	11, 16, 28, 54	0

All (5) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	В	3	ASN	3.1
1	D	6	LEU	2.7
1	В	4	ARG	2.2
1	D	5	GLU	2.1
1	D	197	GLN	2.1

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,

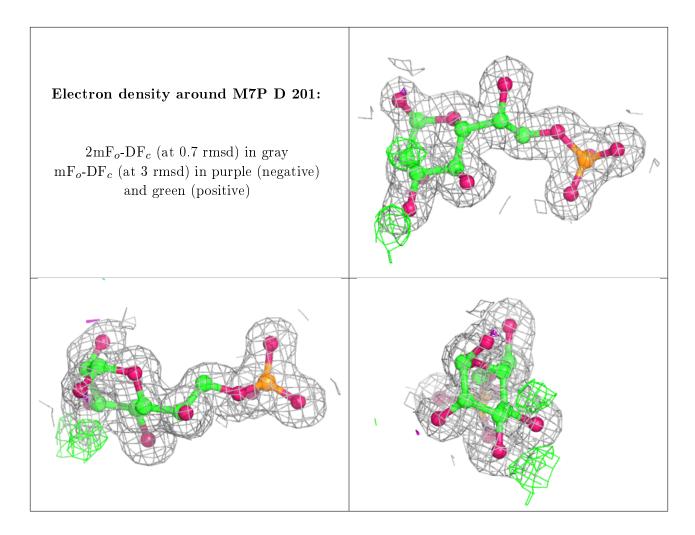


median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\operatorname{B-factors}(\mathring{\mathbf{A}}^2)$	Q<0.9
6	GOL	С	204	6/6	0.79	0.17	38,42,45,45	0
6	GOL	В	202	6/6	0.83	0.10	37,45,49,51	0
6	GOL	В	203	6/6	0.84	0.24	33,39,44,46	0
3	PG4	D	202	13/13	0.84	0.14	24,30,32,33	13
3	PG4	D	203	13/13	0.85	0.13	24,30,36,41	13
4	PEG	A	203	7/7	0.86	0.11	35,39,40,46	0
5	PGE	С	202	10/10	0.86	0.12	31,40,43,44	0
5	PGE	A	204	10/10	0.88	0.31	31,38,48,53	0
5	PGE	D	204	10/10	0.89	0.15	26,34,40,49	0
3	PG4	A	202	13/13	0.91	0.09	28,31,39,42	0
6	GOL	С	203	6/6	0.92	0.16	23,47,50,56	0
9	ACT	D	206	4/4	0.94	0.20	8,11,11,30	0
3	PG4	В	204	13/13	0.95	0.12	27,30,38,40	0
2	M7P	С	201	18/18	0.97	0.07	$13,\!15,\!23,\!25$	0
2	M7P	A	201	18/18	0.97	0.08	$14,\!17,\!30,\!31$	0
2	M7P	D	201	18/18	0.98	0.06	13,15,24,27	0
2	M7P	В	201	18/18	0.98	0.07	13,16,29,29	2
8	MG	D	205	1/1	0.99	0.23	7,7,7,7	0
7	NA	С	205	1/1	0.99	0.15	11,11,11,11	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.

