

wwPDB X-ray Structure Validation Summary Report (i)

Jun 24, 2024 – 02:56 PM EDT

PDB ID : 6HC9

Title: STRUCTURE OF GLUA2 LIGAND-BINDING DOMAIN (S1S2J-L504Y-

N775S) IN COMPLEX WITH GLUTAMATE AND TDPAM02 AT 2.4 A

RESOLUTION.

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Deposited on : 2018-08-14

Resolution : 2.40 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 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:

MolProbity: 4.02b-467

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

Xtriage (Phenix) : 1.13

EDS : 2.37.1

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)

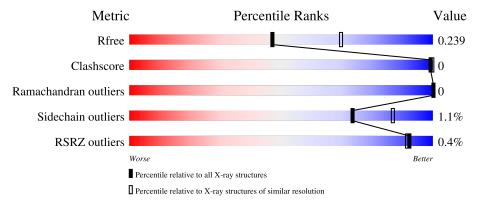
Validation Pipeline (wwPDB-VP) : 2.37.1

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 2.40 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	Similar resolution
Metric	$(\# ext{Entries})$	$(\# ext{Entries}, ext{ resolution range}(ext{Å}))$
R_{free}	130704	3907 (2.40-2.40)
Clashscore	141614	4398 (2.40-2.40)
Ramachandran outliers	138981	4318 (2.40-2.40)
Sidechain outliers	138945	4319 (2.40-2.40)
RSRZ outliers	127900	3811 (2.40-2.40)

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	A	264	98%	•						
1	В	264	96%							



2 Entry composition (i)

There are 9 unique types of molecules in this entry. The entry contains 8674 atoms, of which 4237 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 Glutamate receptor 2,.

Mol	Chain	Residues		Atoms						AltConf	Trace
1	A	264	Total 4166	C 1316	H 2099	N 342	O 394	S 15	0	3	0
1	В	258	Total 4067	C 1288		N 335	O 383	S 14	0	0	0

There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1	GLY	-	expression tag	UNP P19491
A	2	ALA	-	expression tag	UNP P19491
A	94	TYR	LEU	engineered mutation	UNP P19491
A	118	GLY	-	linker	UNP P19491
A	119	THR	-	linker	UNP P19491
A	242	SER	ASN	engineered mutation	UNP P19491
В	1	GLY	-	expression tag	UNP P19491
В	2	ALA	-	expression tag	UNP P19491
В	94	TYR	LEU	engineered mutation	UNP P19491
В	118	GLY	-	linker	UNP P19491
В	119	THR	-	linker	UNP P19491
В	242	SER	ASN	engineered mutation	UNP P19491

• Molecule 2 is GLYCEROL (three-letter code: GOL) (formula: $C_3H_8O_3$).



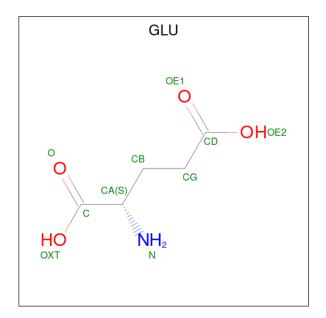


m · 1 · 0 · II			
2 A 1 Total C H	0	0	0

• Molecule 3 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

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

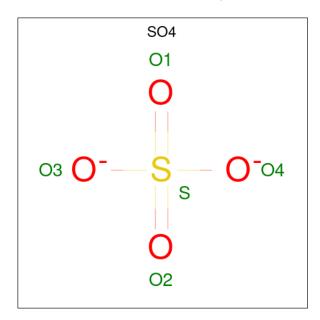
 \bullet Molecule 4 is GLUTAMIC ACID (three-letter code: GLU) (formula: $\mathrm{C}_5\mathrm{H}_9\mathrm{NO}_4).$





	Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
	4	٨	1	Total	С	Н	N	О	0	0
	4	А	1	18	5	8	1	4	U	U
ſ	1	D	1	Total	С	Н	N	О	0	0
	4	Б	1	15	5	5	1	4		

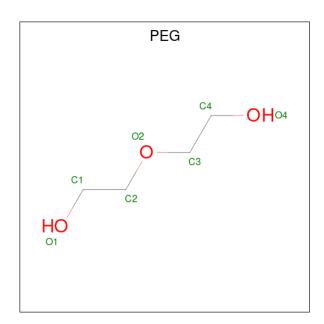
 \bullet Molecule 5 is SULFATE ION (three-letter code: SO4) (formula: $\mathrm{O_4S}).$



Mol	Chain	Residues	Ato	ms		ZeroOcc	AltConf	
5	A	1	Total	О	S	0	0	
	Λ	1	5	4	1	0	U	
5	A	1	Total	О	S	0	0	
9	Λ	1	5	4	1	0	U	
5	A	1	Total	О	S	0	0	
	Λ	1	5	4	1	0	U	
5	В	1	Total	О	S	0	0	
	Ъ	1	5	4	1	0	U	
5	В	1	Total	О	S	0	0	
9	Ъ	1	5	4	1	0	U	
5	В	1	Total	О	S	0	0	
9	Ъ	1	5	4	1	0	U	
5	В	1	Total	О	S	0	0	
)	Б	1	5	4	1		0	
5	В	1	Total	О	S	0	0	
)	Б	1	5	4	1		U	

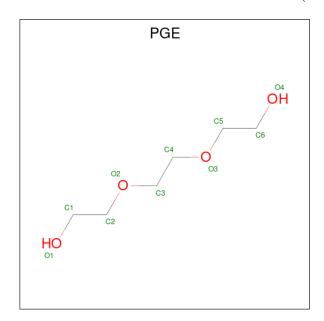
• Molecule 6 is DI(HYDROXYETHYL)ETHER (three-letter code: PEG) (formula: $C_4H_{10}O_3$).





Mol	Chain	Residues	A	tor	ns		ZeroOcc	AltConf	
6	Λ	1	Total	С	Н	О	0	0	
	Λ	1	17	4	10	3	U		
6	٨	1	Total	С	Н	О	0	0	
	Λ	1	17	4	10	3	U		
6	B	1	Total	С	Н	О	0	0	
	Ъ	1	17	4	10	3	0		

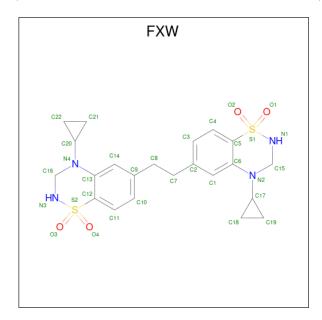
 \bullet Molecule 7 is TRIETHYLENE GLYCOL (three-letter code: PGE) (formula: $\mathrm{C_6H_{14}O_4}).$



Mol	Chain	Residues	A	Ltor	ns		ZeroOcc	AltConf
7	A	1	Total 24	C 6	H 14	O 4	0	0



• Molecule 8 is 6,6'-(ETHANE-1,2-DIYL)BIS(4-CYCLOPROPYL-3,4-DIHYDRO-2H-1,2,4-BENZOTHIADIAZINE 1,1-DIOXIDE) (three-letter code: FXW) (formula: $C_{22}H_{26}N_4O_4S_2$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues		A	tom	ıs			ZeroOcc	AltConf
8	В	1	Total 58	C 22	H 26	N 4	O 4	S 2	0	0

• Molecule 9 is water.

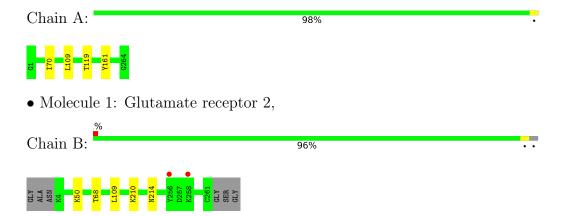
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
9	A	113	Total O 113 113	0	0
9	В	99	Total O 101 101	0	2



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: Glutamate receptor 2,





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants	97.66Å 121.94Å 47.44Å	Depositor
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	76.22 - 2.40	Depositor
rtesolution (A)	76.23 - 2.40	EDS
% Data completeness	99.9 (76.22-2.40)	Depositor
(in resolution range)	100.0 (76.23-2.40)	EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.28	Depositor
$< I/\sigma(I) > 1$	2.19 (at 2.40Å)	Xtriage
Refinement program	PHENIX	Depositor
P. P.	0.208 , 0.239	Depositor
R, R_{free}	0.210 , 0.239	DCC
R_{free} test set	1123 reflections (4.91%)	wwPDB-VP
Wilson B-factor (Å ²)	25.6	Xtriage
Anisotropy	0.485	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.41, 50.7	EDS
L-test for twinning ²	$ < L >=0.50, < L^2>=0.34$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	8674	wwPDB-VP
Average B, all atoms (Å ²)	33.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The analyses of the Patterson function reveals a significant off-origin peak that is 23.34 % 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 4.7511e-03. The detected translational NCS is most likely also responsible for the elevated intensity ratio.

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: PGE, GOL, FXW, CL, SO4, 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	Boı	nd lengths	Bond	angles
IVIOI	Chain	RMSZ	# Z > 5	RMSZ	# Z > 5
1	A	0.28	0.28 1/2113 (0.0%)		0/2839
1	В	0.26	0/2057	0.42	0/2766
All	All	0.27	1/4170 (0.0%)	0.42	0/5605

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\operatorname{Observed}(\text{\AA})$	$\operatorname{Ideal}(ext{\AA})$
1	A	119	THR	C-N	5.44	1.44	1.34

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	A	2067	2099	2099	0	0
1	В	2020	2047	2047	2	0
2	A	6	8	8	0	0
3	A	1	0	0	0	0
3	В	6	0	0	1	0
4	A	10	8	5	0	0
4	В	10	5	5	0	0
5	A	15	0	0	0	0

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Continued	trom	mmoninonic	maaa
COHABABACA		DIEUIUU	DUIUE
0 0 1000100000			

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	В	25	0	0	0	0
6	A	14	20	20	0	0
6	В	7	10	10	0	0
7	A	10	14	14	0	0
8	В	32	26	0	0	0
9	A	113	0	0	0	0
9	В	101	0	0	0	0
All	All	4437	4237	4208	2	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 0.

All (2) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	$\begin{array}{c} \text{Interatomic} \\ \text{distance (Å)} \end{array}$	$\begin{array}{c} \text{Clash} \\ \text{overlap } (\text{\AA}) \end{array}$
1:B:210:LYS:NZ	1:B:214:ASN:OD1	2.34	0.49
1:B:50:LYS:HG3	3:B:304:CL:CL	2.52	0.47

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	A	265/264 (100%)	262 (99%)	3 (1%)	0	100	100
1	В	256/264 (97%)	253 (99%)	3 (1%)	0	100	100
All	All	521/528 (99%)	515 (99%)	6 (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	Analysed Rotameric Outliers		Percentiles		
1	A	222/219 (101%)	219 (99%)	3 (1%)	67	82	
1	В	217/219 (99%)	215 (99%)	2 (1%)	78	90	
All	All	439/438 (100%)	434 (99%)	5 (1%)	73	87	

All (5) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	70	ILE
1	A	109	LEU
1	A	161	TYR
1	В	68	THR
1	В	109	LEU

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 23 ligands modelled in this entry, 7 are monoatomic - leaving 16 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).

Mal	Trino	Chain	Dag	Link	В	ond leng	gths	В	ond ang	gles
Mol	Type	Chain	Res	Lilik	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
5	SO4	В	311	-	4,4,4	0.13	0	6,6,6	0.04	0
5	SO4	A	306	-	4,4,4	0.14	0	6,6,6	0.05	0
7	PGE	A	309	-	9,9,9	0.29	0	8,8,8	0.48	0
2	GOL	A	301	-	5,5,5	0.38	0	5,5,5	0.22	0
6	PEG	A	307	-	6,6,6	0.49	0	5,5,5	0.25	0
4	GLU	В	307	-	8,9,9	1.05	1 (12%)	10,11,11	1.46	2 (20%)
5	SO4	В	308	-	4,4,4	0.14	0	6,6,6	0.04	0
6	PEG	A	308	-	6,6,6	0.46	0	5,5,5	0.41	0
8	FXW	В	313	-	35,37,37	5.23	26 (74%)	46,58,58	6.79	20 (43%)
4	GLU	A	303	-	8,9,9	1.05	1 (12%)	10,11,11	1.27	2 (20%)
6	PEG	В	314	-	6,6,6	0.48	0	5,5,5	0.29	0
5	SO4	A	305	-	4,4,4	0.14	0	6,6,6	0.06	0
5	SO4	В	310	-	4,4,4	0.14	0	6,6,6	0.05	0
5	SO4	В	309	-	4,4,4	0.15	0	6,6,6	0.04	0
5	SO4	A	304	-	4,4,4	0.14	0	6,6,6	0.05	0
5	SO4	В	312	-	4,4,4	0.14	0	6,6,6	0.08	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
2	GOL	A	301	-	-	2/4/4/4	-
6	PEG	A	307	-	-	3/4/4/4	-
4	GLU	В	307	-	-	2/9/9/9	-
6	PEG	A	308	-	-	2/4/4/4	-
8	FXW	В	313	-	-	3/13/49/49	0/6/6/6
4	GLU	A	303	-	-	0/9/9/9	-
6	PEG	В	314	_	_	2/4/4/4	_
7	PGE	A	309	-	-	1/7/7/7	-

The worst 5 of 28 bond length outliers are listed below:



Mol	Chain	Res	Type	Atoms	Z	Observed(A)	$Ideal(\AA)$
8	В	313	FXW	C6-C5	11.38	1.52	1.40
8	В	313	FXW	C13-C12	10.92	1.52	1.40
8	В	313	FXW	C11-C12	-9.59	1.27	1.39
8	В	313	FXW	C6-N2	9.50	1.63	1.40
8	В	313	FXW	C13-N4	9.49	1.63	1.40

The worst 5 of 24 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\mathbf{Observed}(^{o})$	$Ideal(^{o})$
8	В	313	FXW	C15-N2-C6	25.01	121.44	110.25
8	В	313	FXW	C16-N4-C13	24.50	121.21	110.25
8	В	313	FXW	C5-S1-N1	17.15	115.94	102.37
8	В	313	FXW	C12-S2-N3	16.97	115.81	102.37
8	В	313	FXW	C5-C6-N2	-8.45	114.60	121.57

There are no chirality outliers.

5 of 15 torsion outliers are listed below:

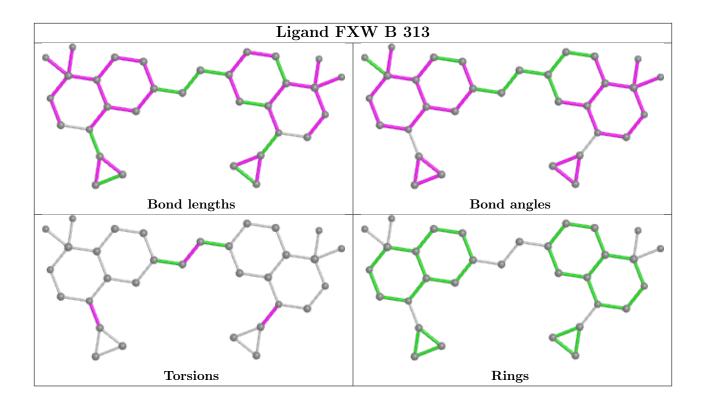
Mol	Chain	Res	Type	Atoms
2	A	301	GOL	O1-C1-C2-C3
2	A	301	GOL	O1-C1-C2-O2
6	A	308	PEG	C1-C2-O2-C3
6	A	307	PEG	C1-C2-O2-C3
7	A	309	PGE	C4-C3-O2-C2

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		$OWAB(A^2)$	Q<0.9
1	A	264/264 (100%)	-0.17	0 100 1	.00	16, 25, 47, 80	0
1	В	258/264~(97%)	-0.05	2 (0%) 86	84	18, 30, 54, 109	0
All	All	522/528 (98%)	-0.11	2 (0%) 92	91	16, 27, 52, 109	0

All (2) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	В	256	TYR	2.9
1	В	258	LYS	2.2

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	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{ ilde{A}}^2)$	Q<0.9
6	PEG	A	307	7/7	0.59	0.27	48,57,62,62	0
6	PEG	В	314	7/7	0.69	0.22	73,87,91,91	0
2	GOL	A	301	6/6	0.72	0.27	57,69,74,76	0

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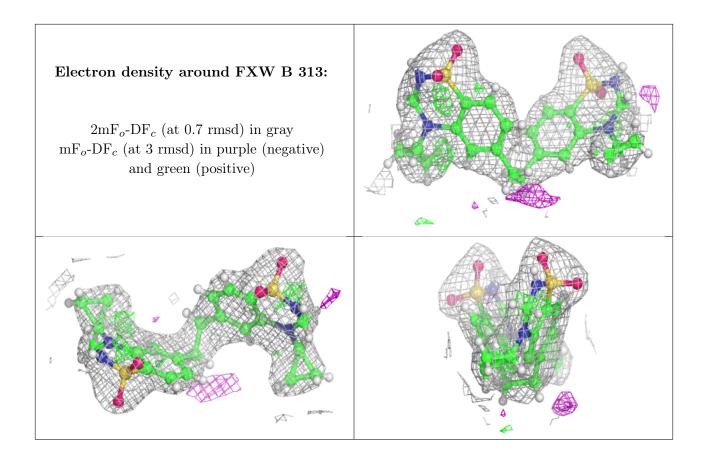


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Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\operatorname{B-factors}(\mathring{\mathbf{A}}^2)$	Q<0.9
5	SO4	A	305	5/5	0.72	0.36	65,66,67,67	5
7	PGE	A	309	10/10	0.76	0.23	52,65,77,77	0
5	SO4	A	306	5/5	0.77	0.27	65,67,67,68	0
6	PEG	A	308	7/7	0.77	0.39	62,74,79,79	0
5	SO4	В	312	5/5	0.80	0.26	42,42,46,48	5
5	SO4	В	311	5/5	0.84	0.24	45,47,47,49	5
3	CL	В	303	1/1	0.84	0.23	57,57,57,57	0
3	CL	В	301	1/1	0.87	0.15	59,59,59,59	0
3	CL	В	306	1/1	0.88	0.23	53,53,53,53	0
3	CL	В	304	1/1	0.89	0.15	45,45,45,45	0
3	CL	A	302	1/1	0.89	0.12	55,55,55,55	0
5	SO4	В	309	5/5	0.91	0.22	85,88,89,89	0
5	SO4	В	310	5/5	0.91	0.20	72,72,72,73	0
3	CL	В	305	1/1	0.92	0.33	50,50,50,50	0
4	GLU	В	307	10/10	0.92	0.15	13,17,25,25	0
3	CL	В	302	1/1	0.94	0.07	54,54,54,54	0
5	SO4	A	304	5/5	0.96	0.15	44,47,49,50	0
5	SO4	В	308	5/5	0.96	0.12	68,71,73,73	0
8	FXW	В	313	32/32	0.96	0.17	14,21,30,34	0
4	GLU	A	303	10/10	0.97	0.12	8,15,19,19	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.

