

Full wwPDB X-ray Structure Validation Report (i)

Mar 24, 2022 – 03:45 pm GMT

PDB ID : 6RTJ

Title : Thioredoxin glutathione reductase from Schistosoma mansoni in complex with

1-[(dimethylamino)methyl]-2-naphthol at 1 hour of soaking

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Deposited on : 2019-05-24

Resolution : 2.00 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 following versions of software and data (see references (1)) were used in the production of this report:

MolProbity: 4.02b-467

Mogul: 1.8.4, CSD as541be (2020)

Xtriage (Phenix) : 1.13

EDS : 2.27

buster-report : 1.1.7 (2018)

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

 $Refmac \quad : \quad 5.8.0267$

CCP4 : 7.1.010 (Gargrove)

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

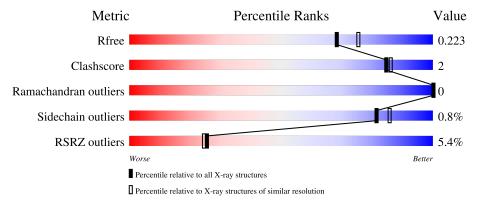
Validation Pipeline (wwPDB-VP) : 2.27

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 2.00 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	8085 (2.00-2.00)
Clashscore	141614	9178 (2.00-2.00)
Ramachandran outliers	138981	9054 (2.00-2.00)
Sidechain outliers	138945	9053 (2.00-2.00)
RSRZ outliers	127900	7900 (2.00-2.00)

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						
			5%						
1	A	598	92%	6% •					



2 Entry composition (i)

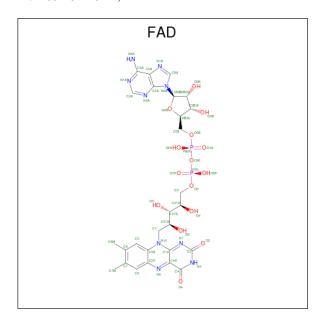
There are 7 unique types of molecules in this entry. The entry contains 9549 atoms, of which 4605 are hydrogens and 0 are deuteriums.

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 Thioredoxin glutathione reductase.

\mathbf{Mol}	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
1	A	588	Total 9042	C 2866	H 4528	N 759	O 867	S 22	0	3	0

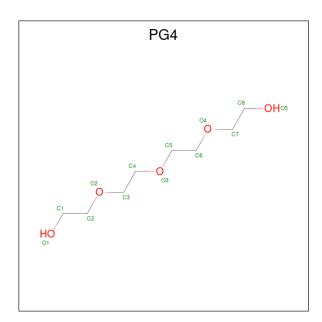
• Molecule 2 is FLAVIN-ADENINE DINUCLEOTIDE (three-letter code: FAD) (formula: $C_{27}H_{33}N_9O_{15}P_2$).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	
9	Λ	1	Total	С	Н	N	О	Р	0	0
	Λ	1	83	27	30	9	15	2	U	0

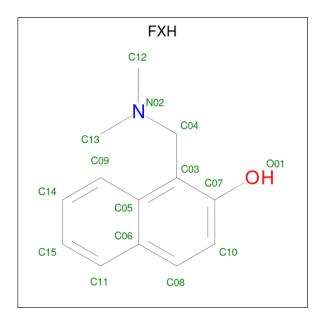
• Molecule 3 is TETRAETHYLENE GLYCOL (three-letter code: PG4) (formula: C₈H₁₈O₅).





Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	Λ	1	Total	С	Н	О	0	0
)	A	1	31	8	18	5	U	0

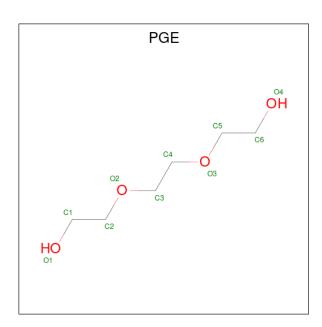
• Molecule 4 is 1-[(dimethylamino)methyl]naphthalen-2-ol (three-letter code: FXH) (formula: $C_{13}H_{15}NO$).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
4	A	1	Total			N	0	0	0
			30	13	15	T	1		

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





Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
5	A	1	Total 24	C 6	H 14	O 4	0	0

 \bullet Molecule 6 is CALCIUM ION (three-letter code: CA) (formula: Ca).

\mathbf{N}	ſol	Chain	Residues	Atoms	ZeroOcc	AltConf
	6	A	1	Total Ca 1 1	0	0

• Molecule 7 is water.

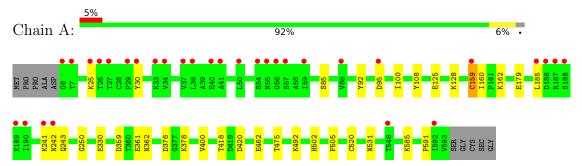
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	A	338	Total O 338 338	0	0



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: Thioredoxin glutathione reductase





4 Data and refinement statistics (i)

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants	142.66Å 102.19Å 58.52Å	Domositon
a, b, c, α , β , γ	90.00° 112.89° 90.00°	Depositor
Resolution (Å)	39.79 - 2.00	Depositor
Resolution (A)	39.79 - 2.00	EDS
% Data completeness	98.9 (39.79-2.00)	Depositor
(in resolution range)	98.9 (39.79-2.00)	EDS
R_{merge}	0.06	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	2.40 (at 2.00Å)	Xtriage
Refinement program	PHENIX (1.15.2_3472: ???)	Depositor
D D	0.184 , 0.224	Depositor
R, R_{free}	0.184 , 0.223	DCC
R_{free} test set	2619 reflections (5.07%)	wwPDB-VP
Wilson B-factor (Å ²)	29.9	Xtriage
Anisotropy	0.077	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	(Not available), (Not available)	EDS
L-test for twinning ²	$< L > = 0.48, < L^2> = 0.31$	Xtriage
Estimated twinning fraction	0.047 for -h-2*l,-k,l	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	9549	wwPDB-VP
Average B, all atoms (Å ²)	42.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 5.03% 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: CA, FXH, FAD, PG4, PGE

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		
		RMSZ	# Z > 5	RMSZ	# Z > 5	
1	A	0.58	$1/4607 \ (0.0\%)$	0.67	1/6241 (0.0%)	

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	Observed(A)	$\operatorname{Ideal}(ext{\AA})$
1	A	159[A]	CYS	CB-SG	-6.40	1.71	1.82

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\operatorname{Observed}(^{o})$	$\mid \operatorname{Ideal}({}^o) \mid$
1	A	159[A]	CYS	CA-CB-SG	-11.05	94.11	114.00

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	4514	4528	4528	21	0
2	A	53	30	31	1	0
3	A	13	18	18	1	0
4	A	15	15	0	1	0
5	A	10	14	14	1	0
6	A	1	0	0	0	0



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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
7	A	338	0	0	3	0
All	All	4944	4605	4591	21	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.

All (21) 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	${\rm distance}(\mathring{\rm A})$	Clash overlap (Å) 0.93 0.68 0.68 0.67 0.66 0.64 0.58 0.53 0.51 0.50 0.49 0.46 0.46			
1:A:159[A]:CYS:SG	1:A:160:ILE:N	2.41	0.93			
1:A:400:VAL:HG22	2:A:601:FAD:H61A	1.58	0.68			
1:A:492:LYS:NZ	3:A:602:PG4:O3	2.27	0.68			
1:A:502:HIS:CE1	1:A:585:LYS:HG2	2.28	0.67			
1:A:502:HIS:CD2	1:A:591:PRO:HB3	2.30	0.66			
1:A:418:THR:OG1	1:A:420:ASP:OD1	2.14	0.64			
1:A:25:LYS:NZ	7:A:702:HOH:O	2.29	0.64			
1:A:30:TYR:HD2	1:A:85:SER:HG	1.51	0.58			
1:A:462:GLU:OE2	7:A:701:HOH:O	2.19	0.53			
1:A:330[A]:GLU:HG3	4:A:603:FXH:O01	2.11	0.51			
1:A:162:LYS:HG3	7:A:888:HOH:O	2.10	0.50			
1:A:92:TYR:O	1:A:95:ASP:N	2.36	0.49			
1:A:125:GLU:O	1:A:128:LYS:HB2	2.15	0.46			
1:A:359:ASP:OD2	1:A:362:ASN:HB2	2.16	0.46			
1:A:108:TYR:O	1:A:250:GLY:HA2	2.15	0.46			
1:A:376:ASP:OD1	1:A:378:LYS:HG2	2.16	0.46			
1:A:505:PHE:CZ	1:A:520:CYS:HB3	2.53	0.44			
1:A:179:GLU:HG2	1:A:185:LEU:HD21	2.00	0.43			
1:A:242:ASN:O	1:A:243:GLN:HB2	2.20	0.42			
1:A:241:LYS:HA	5:A:604:PGE:H22	2.01	0.42			
1:A:502:HIS:CE1	1:A:585:LYS:CG	3.01	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	Percentiles	
1	A	588/598 (98%)	567 (96%)	21 (4%)	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		
1	A	491/495 (99%)	487 (99%)	4 (1%)	81 86		

All (4) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	100	ILE
1	A	361	GLU
1	A	475	THR
1	A	531	ASN

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

Mol	Chain	Res	Type
1	A	502	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 5 ligands modelled in this entry, 1 is monoatomic - leaving 4 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	Tuno	Chain	Chain Res Link Bond lengths F					ond angles		
MIOI	Туре	Chain	nes	LIIIK	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	PG4	A	602	-	12,12,12	0.52	0	11,11,11	0.64	0
5	PGE	A	604	-	9,9,9	0.48	0	8,8,8	0.51	0
4	FXH	A	603	-	16,16,16	1.72	3 (18%)	22,22,22	1.45	4 (18%)
2	FAD	A	601	-	51,58,58	4.51	20 (39%)	60,89,89	2.32	18 (30%)

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
3	PG4	A	602	-	-	5/10/10/10	-
5	PGE	A	604	-	-	2/7/7/7	-
4	FXH	A	603	-	-	2/4/4/4	0/2/2/2
2	FAD	A	601	-	-	5/30/50/50	0/6/6/6

All (23) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\operatorname{Observed}(\text{\AA})$	$\operatorname{Ideal}(\text{\AA})$
2	A	601	FAD	C2B-C1B	-16.60	1.28	1.53
2	A	601	FAD	O4B-C1B	13.86	1.60	1.41
2	A	601	FAD	C5X-N5	9.00	1.50	1.35
2	A	601	FAD	C10-N1	8.94	1.44	1.33
2	A	601	FAD	C4X-C10	7.92	1.46	1.38
2	A	601	FAD	C9A-N10	7.51	1.48	1.38



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Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\operatorname{Observed}(\text{\AA})$	$\operatorname{Ideal}(ext{\AA})$
2	A	601	FAD	C4X-N5	7.04	1.43	1.33
2	A	601	FAD	C4-N3	6.26	1.43	1.33
2	A	601	FAD	O4B-C4B	-5.74	1.32	1.45
2	A	601	FAD	C2-N3	5.27	1.48	1.38
2	A	601	FAD	C8M-C8	5.05	1.61	1.51
2	A	601	FAD	C2-N1	4.38	1.46	1.38
4	A	603	FXH	C04-C03	4.33	1.54	1.51
2	A	601	FAD	O2B-C2B	4.21	1.52	1.43
2	A	601	FAD	C4X-C4	4.13	1.48	1.41
2	A	601	FAD	C5B-C4B	3.33	1.62	1.51
4	A	603	FXH	C03-C05	-3.06	1.38	1.43
2	A	601	FAD	PA-O5B	2.95	1.71	1.59
2	A	601	FAD	C6A-N6A	2.94	1.44	1.34
2	A	601	FAD	C2A-N3A	2.50	1.36	1.32
4	A	603	FXH	O01-C07	2.20	1.40	1.36
2	A	601	FAD	C5A-C4A	-2.18	1.35	1.40
2	A	601	FAD	C6A-C5A	-2.07	1.35	1.43

All (22) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^o)$	$Ideal(^{o})$
2	A	601	FAD	C2-N3-C4	8.91	122.67	115.14
2	A	601	FAD	N3A-C2A-N1A	-5.92	119.42	128.68
2	A	601	FAD	C4X-C4-N3	-5.14	116.40	123.43
2	A	601	FAD	C5A-C6A-N6A	4.71	127.50	120.35
2	A	601	FAD	C5X-C9A-N10	4.51	120.98	117.72
2	A	601	FAD	C7M-C7-C8	3.90	128.73	120.74
4	A	603	FXH	C13-N02-C04	3.83	118.60	110.69
2	A	601	FAD	N6A-C6A-N1A	-3.68	110.92	118.57
2	A	601	FAD	C7M-C7-C6	-3.48	112.02	120.34
2	A	601	FAD	C5'-C4'-C3'	-3.42	105.59	112.20
2	A	601	FAD	C4X-N5-C5X	3.37	120.14	116.77
2	A	601	FAD	O4B-C1B-C2B	-2.76	102.89	106.93
2	A	601	FAD	C1'-N10-C9A	2.71	120.43	118.29
4	A	603	FXH	C09-C05-C03	-2.53	119.16	122.71
2	A	601	FAD	C1B-N9A-C4A	-2.51	122.22	126.64
2	A	601	FAD	C4'-C3'-C2'	-2.46	108.25	113.36
2	A	601	FAD	O4'-C4'-C3'	2.43	115.00	109.10
2	A	601	FAD	O3'-C3'-C4'	2.28	114.31	108.81
4	A	603	FXH	C09-C05-C06	2.25	120.80	117.89
2	A	601	FAD	C9A-C5X-N5	-2.20	118.93	122.36
4	A	603	FXH	C03-C04-N02	2.18	116.28	112.48



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Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\mathbf{Observed}(^o)$	$\operatorname{Ideal}({}^{o})$
2	A	601	FAD	C5B-C4B-C3B	-2.07	107.43	115.18

There are no chirality outliers.

All (14) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	A	603	FXH	C03-C04-N02-C13
3	A	602	PG4	C4-C3-O2-C2
4	A	603	FXH	C03-C04-N02-C12
3	A	602	PG4	O2-C3-C4-O3
3	A	602	PG4	O4-C7-C8-O5
2	A	601	FAD	P-O3P-PA-O1A
2	A	601	FAD	PA-O3P-P-O5'
3	A	602	PG4	C6-C5-O3-C4
5	A	604	PGE	O2-C3-C4-O3
2	A	601	FAD	P-O3P-PA-O2A
2	A	601	FAD	O4B-C4B-C5B-O5B
2	A	601	FAD	C3B-C4B-C5B-O5B
3	A	602	PG4	C5-C6-O4-C7
5	A	604	PGE	C1-C2-O2-C3

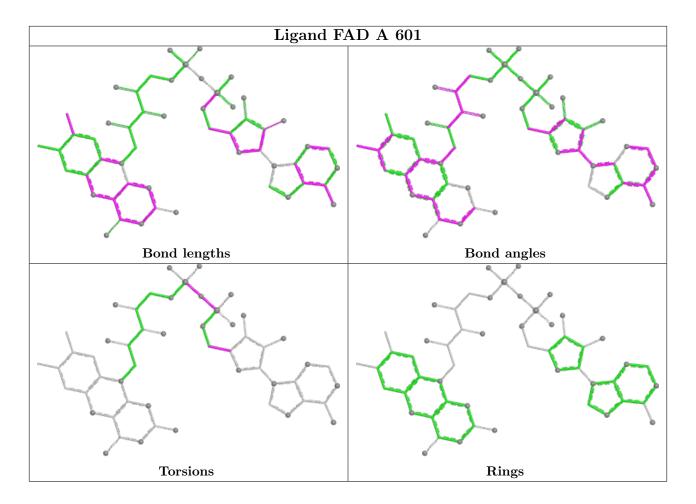
There are no ring outliers.

4 monomers are involved in 4 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	602	PG4	1	0
5	A	604	PGE	1	0
4	A	603	FXH	1	0
2	A	601	FAD	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 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>	# RSRZ > 2		$OWAB(Å^2)$	Q < 0.9
1	A	588/598 (98%)	0.14	32 (5%) 25	24	19, 32, 72, 100	0

All (32) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	30	TYR	5.5
1	A	34	VAL	5.0
1	A	37	VAL	4.2
1	A	241	LYS	4.2
1	A	6	GLY	4.1
1	A	188	SER	4.0
1	A A	59	ILE	3.8
1	A	50	LEU	3.6
1	A	27	THR	3.5
1	A	186	ASP	3.4
1	A	33	LYS	3.4
1	A	189	LYS	3.2
1	A	41	ALA	3.2
1	A	187	ARG	3.2
1	A	190	ILE	3.0
1	A	185	LEU	3.0
1	A	592	ILE	2.9
1	A	95	ASP	2.9
1	A A	159[A]	CYS	2.9
1		57	SER	2.8
1	A	56	GLY	2.7
1	A	25	LYS	2.7
1	A	242	ASN	2.6
1	A	26	THR	2.6
1	A	38	LEU	2.4
1	A	54	SER	2.4
1	A	55	ASN	2.3



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Mol	Chain	Res	Type	RSRZ
1	A	7	THR	2.2
1	A	88	VAL	2.2
1	A	548	THR	2.2
1	A	29	PRO	2.2
1	A	40	GLU	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.

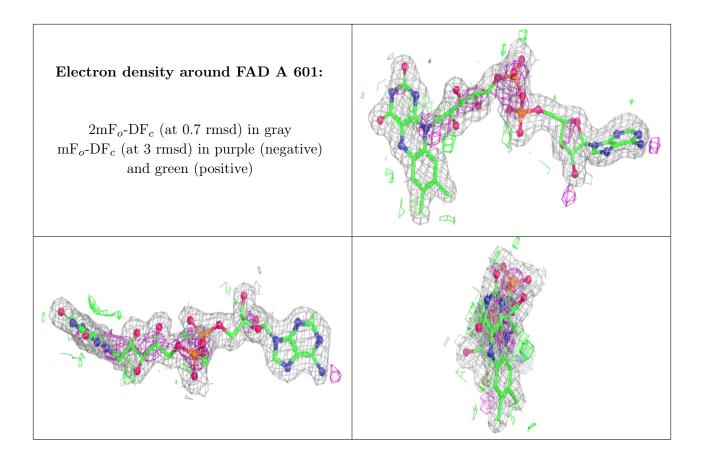
6.4 Ligands (i)

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	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q < 0.9
3	PG4	A	602	13/13	0.76	0.24	57,71,83,97	0
5	PGE	A	604	10/10	0.87	0.30	61,75,95,95	0
4	FXH	A	603	15/15	0.89	0.17	36,47,60,60	0
2	FAD	A	601	53/53	0.94	0.11	24,37,47,51	0
6	CA	A	605	1/1	0.99	0.10	27,27,27,27	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.

