



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 20, 2026 – 01:32 PM UTC

PDB ID : 2PSS / pdb_00002pss
Title : The structure of Plasmodium falciparum spermidine synthase in its apo-form
Authors : Dufe, V.T.; Qiu, W.; Muller, I.B.; Hui, R.; Walter, R.D.; Al-Karadaghi, S.;
Structural Genomics Consortium (SGC)
Deposited on : 2007-05-07
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 ⓘ 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 ⓘ](#)) were used in the production of this report:

MolProbity : 4-5-2 with Phenix2.0
Mogul : 2022.3.0, CSD as543be (2022)
Xtriage (Phenix) : 2.0
EDS : 3.0
Buster-report : wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4 : 9.0.010 (Gargrove)
Density-Fitness : 1.0.12
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

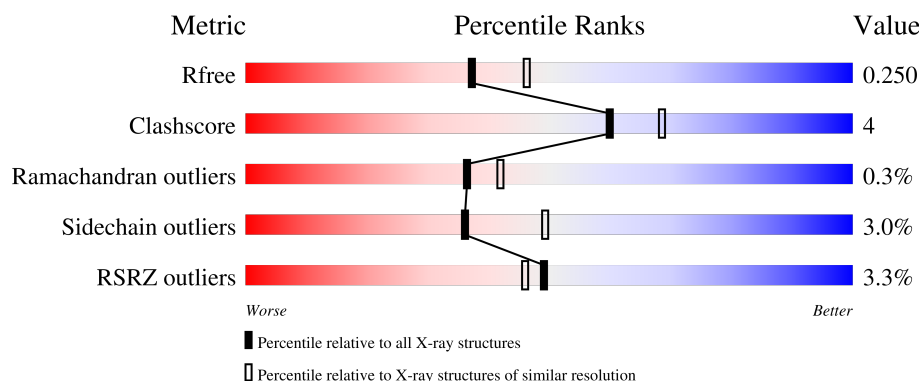
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

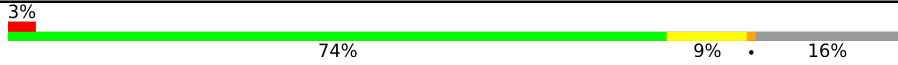
The reported resolution of this entry is 2.20 Å.

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	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	6164 (2.20-2.20)
Clashscore	190562	6851 (2.20-2.20)
Ramachandran outliers	187476	6768 (2.20-2.20)
Sidechain outliers	187428	6769 (2.20-2.20)
RSRZ outliers	180081	6166 (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 $\leq 5\%$. 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	321	
1	B	321	
1	C	321	

2 Entry composition [i](#)

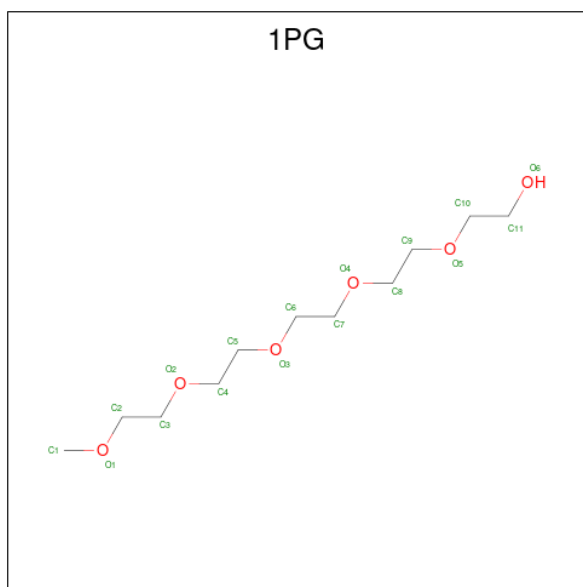
There are 5 unique types of molecules in this entry. The entry contains 6748 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 Spermidine synthase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	269	Total	C	N	O	S	0	1	0
			2166	1407	338	406	15			
1	B	268	Total	C	N	O	S	3	1	0
			2159	1403	337	404	15			
1	C	269	Total	C	N	O	S	0	0	0
			2163	1405	338	406	14			

- Molecule 2 is 2-(2-{2-[2-(2-METHOXY-ETHOXY)-ETHOXY]-ETHOXY}-ETHOXY)-ETHANOL (CCD ID: 1PG) (formula: C₁₁H₂₄O₆).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	1	Total	C	O	0	0
			17	11	6		
2	B	1	Total	C	O	0	0
			17	11	6		

- Molecule 3 is GLYCEROL (CCD ID: GOL) (formula: C₃H₈O₃).



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

- Molecule 4 is SULFATE ION (CCD ID: SO4) (formula: O₄S).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	B	1	Total	O	S	0	0
			5	4	1		

- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	59	Total 59	O 59	0	0
5	B	71	Total 71	O 71	0	0
5	C	73	Total 73	O 73	0	0

4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	195.63Å 134.18Å 48.42Å 90.00° 94.07° 90.00°	Depositor
Resolution (Å)	19.75 – 2.20 19.75 – 2.20	Depositor EDS
% Data completeness (in resolution range)	94.3 (19.75-2.20) 97.3 (19.75-2.20)	Depositor EDS
R_{merge}	0.78	Depositor
R_{sym}	0.14	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.13 (at 2.19Å)	Xtriage
Refinement program	REFMAC 5.2.0019	Depositor
R, R_{free}	0.205 , 0.247 0.209 , 0.250	Depositor DCC
R_{free} test set	3068 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	33.3	Xtriage
Anisotropy	0.134	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 38.2	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	6748	wwPDB-VP
Average B, all atoms (Å ²)	37.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.40% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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.

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: 1PG, GOL, SO4

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	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	A	0.69	0/2215	0.89	1/2986 (0.0%)
1	B	0.80	1/2208 (0.0%)	0.91	1/2977 (0.0%)
1	C	0.80	0/2209	0.91	2/2978 (0.1%)
All	All	0.76	1/6632 (0.0%)	0.90	4/8941 (0.0%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	70	LYS	CG-CD	-10.99	1.19	1.52

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	235	ILE	N-CA-C	7.80	118.67	112.12
1	C	271	ILE	CB-CA-C	-5.60	102.33	110.63
1	C	235	ILE	N-CA-C	5.05	119.84	109.34
1	B	70	LYS	CB-CG-CD	5.02	122.85	111.30

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	2166	0	2185	18	0
1	B	2159	0	2178	17	0
1	C	2163	0	2180	22	0
2	A	17	0	24	0	0
2	B	17	0	24	2	0
3	A	6	0	8	0	0
3	B	6	0	8	0	0
3	C	6	0	8	0	0
4	B	5	0	0	0	0
5	A	59	0	0	2	0
5	B	71	0	0	0	0
5	C	73	0	0	1	0
All	All	6748	0	6615	56	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 (56) 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:C:211:ASN:HD21	1:C:215:LYS:NZ	1.81	0.78
1:C:127:ASP:HA	1:C:156:SER:OG	1.84	0.77
1:C:297:LYS:HD3	5:C:603:HOH:O	1.83	0.76
1:C:61:LYS:HB3	1:C:78:GLU:HG2	1.75	0.69
1:C:244:ILE:HG22	1:C:248:LYS:HD2	1.72	0.69
1:C:88:LEU:HD12	1:C:93:GLN:HG3	1.74	0.69
1:C:41:LYS:HB2	1:C:59:LYS:HE2	1.81	0.61
1:C:88:LEU:HD12	1:C:93:GLN:CG	2.30	0.61
1:A:88:LEU:HD12	1:A:93:GLN:HG3	1.82	0.61
1:A:50:MET:O	1:A:236:HIS:NE2	2.35	0.59
1:A:302:GLU:HG3	5:A:710:HOH:O	2.03	0.57
1:A:284:PRO:HG2	1:A:301:TYR:CE1	2.40	0.57
1:C:211:ASN:HD21	1:C:215:LYS:HZ2	1.54	0.56
1:C:88:LEU:CD1	1:C:93:GLN:HG3	2.37	0.55
1:C:284:PRO:HG3	1:C:304:HIS:ND1	2.24	0.52
1:B:42:LYS:HG3	1:B:43:TRP:H	1.74	0.52
1:A:82:TYR:CD2	1:A:97:LYS:HD3	2.44	0.52
1:A:197:SER:O	1:A:198:SER:HB2	2.10	0.51
1:C:131:ILE:HG22	1:C:166:GLY:HA3	1.92	0.50
1:C:237:VAL:HG11	1:C:317:GLU:HG3	1.92	0.50
1:C:269:ILE:HG13	1:C:270:GLY:N	2.26	0.50
1:A:88:LEU:CD1	1:A:93:GLN:HG3	2.40	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:48:SER:HB3	1:B:51:TRP:CE2	2.47	0.50
1:B:42:LYS:HA	1:B:42:LYS:HE2	1.93	0.48
1:A:107:THR:O	1:A:110:PRO:HD2	2.14	0.48
1:A:309:LYS:HE2	5:A:754:HOH:O	2.13	0.48
1:B:221:LYS:O	1:B:276:LYS:HD2	2.14	0.47
1:C:50:MET:O	1:C:236:HIS:NE2	2.47	0.47
1:A:251:PHE:CG	1:A:274:CYS:HB3	2.50	0.47
1:B:47:PHE:HZ	2:B:702:1PG:H112	1.81	0.46
1:B:241:LYS:HD2	1:B:317:GLU:HB3	1.98	0.46
1:B:282:THR:HG22	1:B:308:PHE:CG	2.51	0.45
1:A:82:TYR:CE2	1:A:97:LYS:HD3	2.51	0.45
1:A:221:LYS:HB3	1:A:222:PRO:HD2	1.99	0.45
1:B:49:ILE:HD12	1:B:50[B]:MET:HE3	1.98	0.45
1:B:47:PHE:CZ	2:B:702:1PG:H112	2.52	0.45
1:B:41:LYS:HD2	1:B:59:LYS:HE2	1.98	0.44
1:B:98:ASP:OD2	1:B:263:THR:OG1	2.24	0.44
1:A:197:SER:O	1:A:198:SER:CB	2.66	0.43
1:B:212:PHE:CE2	1:B:216:ILE:HD11	2.53	0.43
1:B:85:VAL:HG22	1:B:95:THR:HG22	2.01	0.43
1:C:244:ILE:CG2	1:C:248:LYS:HD2	2.46	0.43
1:C:85:VAL:HG13	1:C:95:THR:HG22	2.00	0.43
1:A:299:TYR:CD2	1:A:299:TYR:C	2.97	0.43
1:A:241:LYS:HG2	1:A:321:ILE:HD11	2.00	0.42
1:A:243:MET:HB3	1:A:272:LEU:HD22	2.02	0.42
1:B:271:ILE:HD13	1:B:271:ILE:HG21	1.86	0.42
1:B:234:TRP:CE2	1:C:262:PRO:HD3	2.55	0.41
1:C:211:ASN:ND2	1:C:215:LYS:NZ	2.59	0.41
1:C:193:ILE:O	1:C:226:CYS:HA	2.20	0.41
1:A:273:CYS:HB3	1:A:281:LEU:HD12	2.03	0.41
1:C:304:HIS:CD2	1:C:304:HIS:C	2.98	0.40
1:A:98:ASP:OD2	1:A:262:PRO:HG2	2.21	0.40
1:B:115:LYS:C	1:B:116:GLU:HG2	2.45	0.40
1:C:231:GLU:HG3	1:C:239:THR:HB	2.04	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

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	266/321 (83%)	254 (96%)	12 (4%)	0	100	100
1	B	265/321 (83%)	257 (97%)	8 (3%)	0	100	100
1	C	265/321 (83%)	255 (96%)	8 (3%)	2 (1%)	16	16
All	All	796/963 (83%)	766 (96%)	28 (4%)	2 (0%)	36	42

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	C	231	GLU
1	C	197	SER

5.3.2 Protein sidechains

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	244/290 (84%)	239 (98%)	5 (2%)	48	64
1	B	243/290 (84%)	231 (95%)	12 (5%)	22	29
1	C	243/290 (84%)	238 (98%)	5 (2%)	47	63
All	All	730/870 (84%)	708 (97%)	22 (3%)	36	49

All (22) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	116	GLU

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Mol	Chain	Res	Type
1	A	145	ILE
1	A	198	SER
1	A	235	ILE
1	A	261	ILE
1	B	42	LYS
1	B	49	ILE
1	B	63	ILE
1	B	116	GLU
1	B	155	VAL
1	B	185	ASN
1	B	186	VAL
1	B	198	SER
1	B	235	ILE
1	B	279	THR
1	B	283	LYS
1	B	319	GLU
1	C	78	GLU
1	C	197	SER
1	C	235	ILE
1	C	269	ILE
1	C	278	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (9) such sidechains are listed below:

Mol	Chain	Res	Type
1	B	185	ASN
1	B	285	ASN
1	B	320	ASN
1	C	72	GLN
1	C	211	ASN
1	C	218	ASN
1	C	223	ASN
1	C	229	GLN
1	C	285	ASN

5.3.3 RNA ⓘ

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 oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

6 ligands are modelled in this entry.

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	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
2	1PG	B	702	-	16,16,16	0.56	0	15,15,15	0.28	0
4	SO4	B	604	-	4,4,4	0.23	0	6,6,6	0.53	0
3	GOL	C	602	-	5,5,5	0.46	0	5,5,5	0.55	0
3	GOL	B	601	-	5,5,5	0.39	0	5,5,5	0.32	0
3	GOL	A	603	-	5,5,5	0.36	0	5,5,5	0.48	0
2	1PG	A	701	-	16,16,16	0.51	0	15,15,15	0.20	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	1PG	B	702	-	-	8/14/14/14	-
3	GOL	C	602	-	-	0/4/4/4	-
3	GOL	B	601	-	-	2/4/4/4	-
3	GOL	A	603	-	-	0/4/4/4	-
2	1PG	A	701	-	-	9/14/14/14	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (19) torsion outliers are listed below:

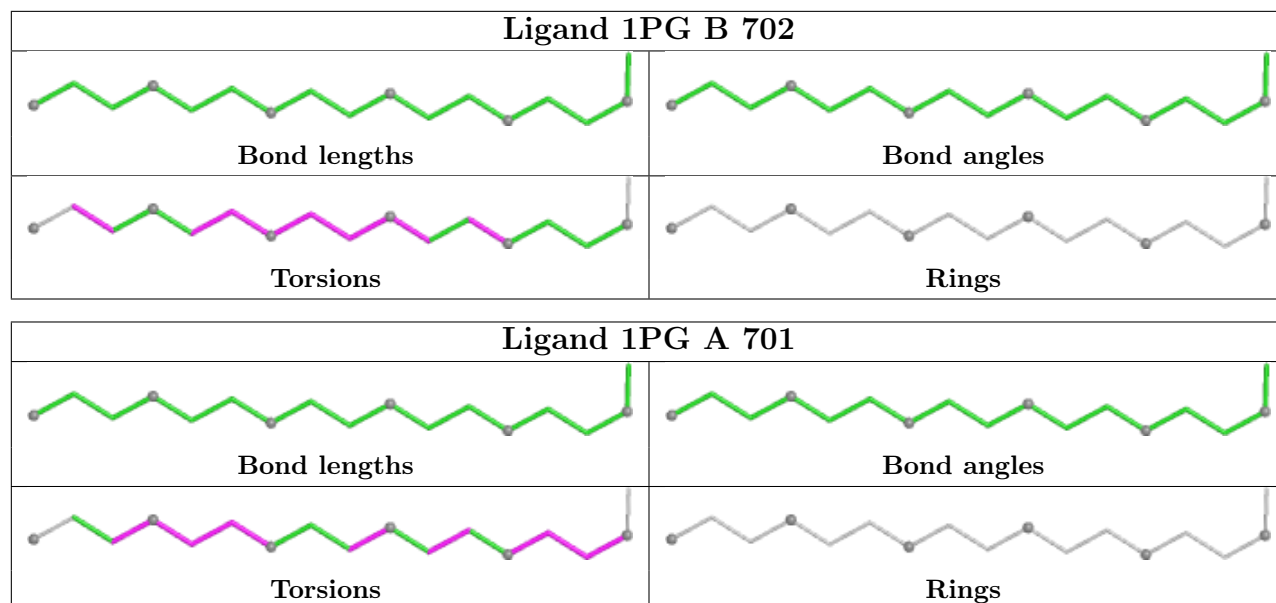
Mol	Chain	Res	Type	Atoms
2	A	701	1PG	O2-C4-C5-O3
2	B	702	1PG	O3-C6-C7-O4
2	A	701	1PG	O4-C8-C9-O5
2	B	702	1PG	O4-C8-C9-O5
2	B	702	1PG	O5-C10-C11-O6
3	B	601	GOL	O1-C1-C2-O2
2	A	701	1PG	C9-C8-O4-C7
2	A	701	1PG	C2-C3-O2-C4
2	A	701	1PG	C11-C10-O5-C9
2	B	702	1PG	C6-C7-O4-C8
2	B	702	1PG	C7-C6-O3-C5
2	A	701	1PG	C3-C2-O1-C1
2	A	701	1PG	C7-C6-O3-C5
2	A	701	1PG	O1-C2-C3-O2
2	B	702	1PG	C5-C4-O2-C3
2	B	702	1PG	C9-C8-O4-C7
3	B	601	GOL	O1-C1-C2-C3
2	A	701	1PG	C8-C9-O5-C10
2	B	702	1PG	C4-C5-O3-C6

There are no ring outliers.

1 monomer is involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	702	1PG	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 than 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 ⓘ

6.1 Protein, DNA and RNA chains ⓘ

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, 95th 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)	Q<0.9
1	A	269/321 (83%)	0.18	11 (4%) 41 38	20, 38, 51, 67	21 (7%)
1	B	268/321 (83%)	0.08	11 (4%) 41 38	16, 35, 50, 70	17 (6%)
1	C	269/321 (83%)	-0.04	5 (1%) 66 63	16, 33, 47, 56	7 (2%)
All	All	806/963 (83%)	0.07	27 (3%) 49 46	16, 36, 50, 70	45 (5%)

All (27) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	198	SER	8.7
1	B	198	SER	6.0
1	C	198	SER	5.1
1	A	50	MET	4.5
1	B	185	ASN	3.9
1	B	246	TYR	3.7
1	B	216	ILE	3.5
1	C	246	TYR	3.3
1	A	216	ILE	3.3
1	A	41	LYS	3.1
1	C	70	LYS	3.0
1	B	68	LYS	2.9
1	A	320	ASN	2.9
1	A	321	ILE	2.6
1	B	320	ASN	2.6
1	B	50[A]	MET	2.4
1	A	168	GLU	2.4
1	C	68	LYS	2.3
1	A	252	LYS	2.3
1	A	246	TYR	2.3
1	B	295	ASP	2.2
1	B	186	VAL	2.1
1	B	305	SER	2.1

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Mol	Chain	Res	Type	RSRZ
1	A	184	GLU	2.1
1	B	41	LYS	2.0
1	A	319	GLU	2.0
1	C	50	MET	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 oligosaccharides in this entry.

6.4 Ligands [i](#)

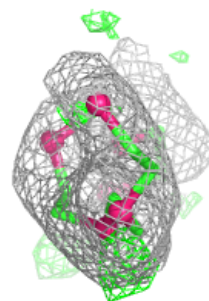
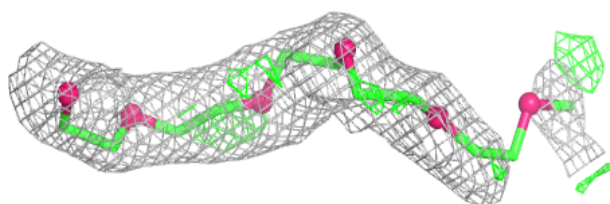
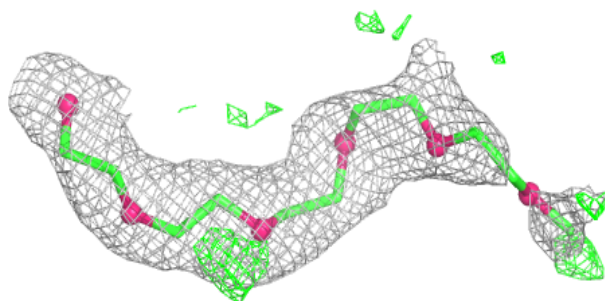
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	1PG	B	702	17/17	0.78	0.18	62,65,80,81	0
2	1PG	A	701	17/17	0.87	0.15	57,59,63,63	17
3	GOL	B	601	6/6	0.92	0.09	45,48,49,50	0
3	GOL	A	603	6/6	0.94	0.07	44,49,50,51	0
4	SO4	B	604	5/5	0.94	0.08	48,49,51,52	0
3	GOL	C	602	6/6	0.95	0.08	41,45,46,49	0

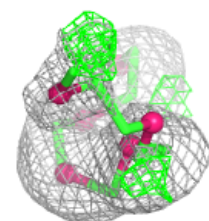
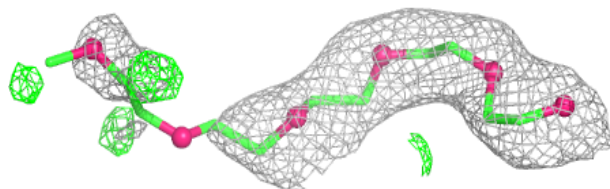
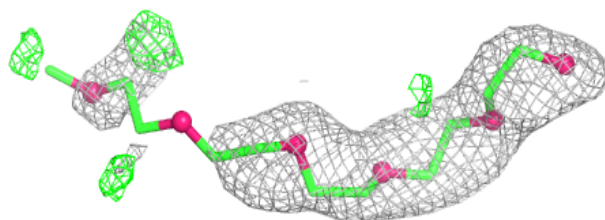
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

Electron density around 1PG B 702:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

**Electron density around 1PG A 701:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



6.5 Other polymers [i](#)

There are no such residues in this entry.