



Full wwPDB X-ray Structure Validation Report ⓘ

Sep 15, 2025 – 04:17 pm BST

PDB ID : 9SOP / pdb_00009sop
Title : Tissue inhibitor of metalloproteinase-1 (TIMP-1)
Authors : Shemy, A.; Voet, A.
Deposited on : 2025-09-15
Resolution : 1.95 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 Phenix2.0rc1
Mogul : 1.8.4, CSD as541be (2020)
Xtriage (Phenix) : 2.0rc1
EDS : 3.0
buster-report : 1.1.7 (2018)
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
CCP4 : 9.0.006 (Gargrove)
Density-Fitness : 1.0.12
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.45.1

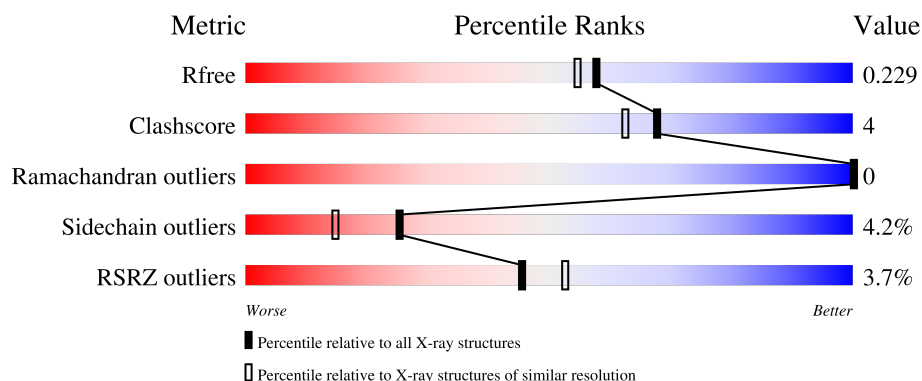
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.95 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}	164625	3187 (1.96-1.96)
Clashscore	180529	3412 (1.96-1.96)
Ramachandran outliers	177936	3390 (1.96-1.96)
Sidechain outliers	177891	3390 (1.96-1.96)
RSRZ outliers	164620	3186 (1.96-1.96)

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	184	 3% 88% 7% . .
1	B	184	 4% 86% 10% . .

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	DMS	A	202	-	-	X	-
3	DMS	B	204	-	-	X	-
4	FLC	A	203	-	X	-	-

2 Entry composition [i](#)

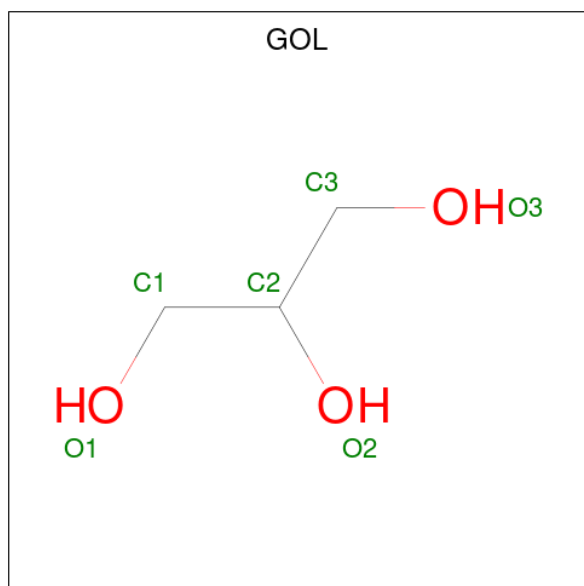
There are 7 unique types of molecules in this entry. The entry contains 5681 atoms, of which 2725 are hydrogens and 0 are deuteriums.

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 Metalloproteinase inhibitor 1.

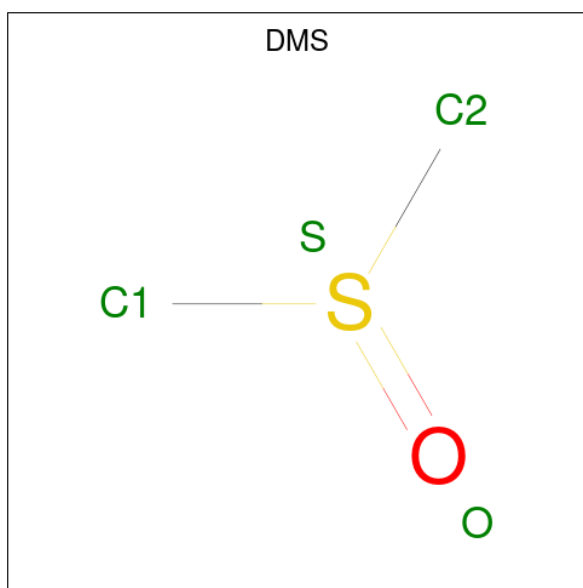
Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	177	Total	C	H	N	O	S	0	0	0
			2710	885	1319	239	252	15			
1	B	179	Total	C	H	N	O	S	0	0	0
			2720	890	1318	243	254	15			

- Molecule 2 is GLYCEROL (CCD ID: GOL) (formula: $C_3H_8O_3$).



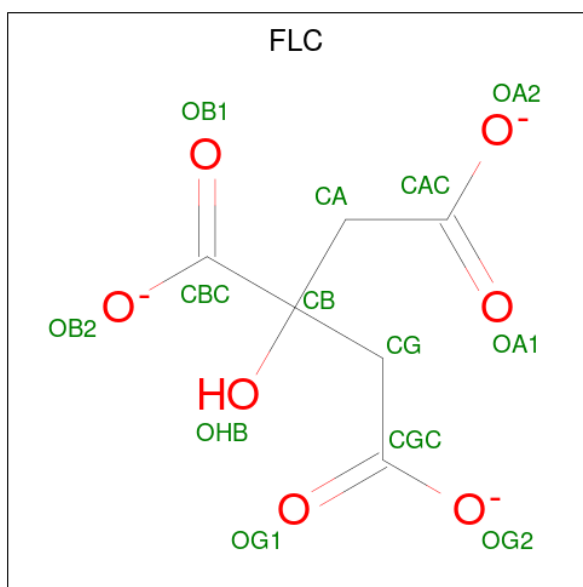
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	C	H	O	0	0
			11	3	5	3		
2	B	1	Total	C	H	O	0	0
			11	3	5	3		
2	B	1	Total	C	H	O	0	0
			11	3	5	3		
2	B	1	Total	C	H	O	0	0
			11	3	5	3		

- Molecule 3 is DIMETHYL SULFOXIDE (CCD ID: DMS) (formula: C_2H_6OS).



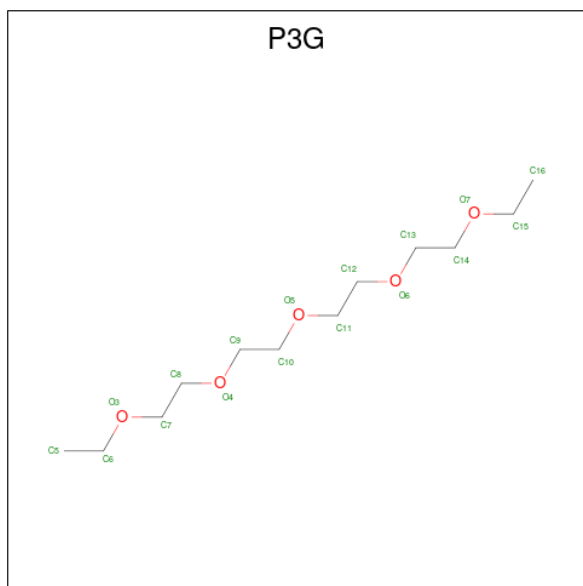
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	A	1	Total	C	H	O	S	0	0
			10	2	6	1	1		
3	B	1	Total	C	H	O	S	0	0
			10	2	6	1	1		
3	B	1	Total	C	H	O	S	0	0
			10	2	6	1	1		
3	B	1	Total	C	H	O	S	0	0
			10	2	6	1	1		
3	B	1	Total	C	H	O	S	0	0
			10	2	6	1	1		

- Molecule 4 is CITRATE ANION (CCD ID: FLC) (formula: $C_6H_5O_7$).



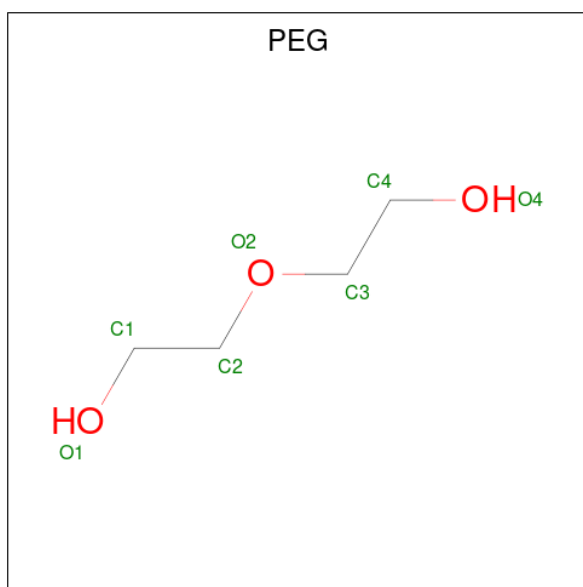
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
4	A	1	Total	C	H	O	0	0
			17	6	4	7		

- Molecule 5 is 3,6,9,12,15-PENTAOXAHEPTADECANE (CCD ID: P3G) (formula: $C_{12}H_{26}O_5$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
5	A	1	Total	C	H	O	0	0
			43	12	26	5		

- Molecule 6 is DI(HYDROXYETHYL)ETHER (CCD ID: PEG) (formula: $C_4H_{10}O_3$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
6	B	1	Total	C	H	O	0	0
			15	4	8	3		

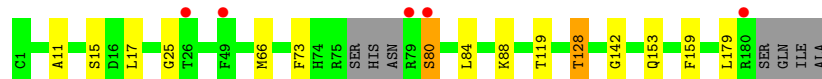
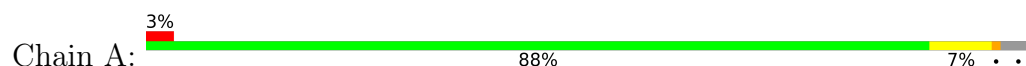
- Molecule 7 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	A	40	Total	O	0	0
			40	40		
7	B	42	Total	O	0	0
			42	42		

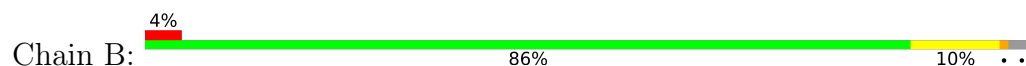
3 Residue-property plots [i](#)

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: Metalloproteinase inhibitor 1



• Molecule 1: Metalloproteinase inhibitor 1



4 Data and refinement statistics

Property	Value
Space group	P 1 21 1
Cell constants a, b, c, α , β , γ	49.23Å 44.24Å 90.53Å 90.00° 99.06° 90.00°
Resolution (Å)	44.74 – 1.95 44.74 – 1.95
% Data completeness (in resolution range)	100.0 (44.74-1.95) 100.0 (44.74-1.95)
R_{merge}	0.05
R_{sym}	(Not available)
$\langle I/\sigma(I) \rangle$ ¹	4.11 (at 1.95Å)
Refinement program	REFMAC 5.8.0431 (refmacat 0.4.105), REFMAC 5.8.0431 (refmacat 0.4.105)
R, R_{free}	0.191 , 0.229 0.191 , 0.229
R_{free} test set	1396 reflections (4.91%)
Wilson B-factor (Å ²)	28.4
Anisotropy	0.708
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.43 , 37.1
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$
Estimated twinning fraction	No twinning to report.
F_o, F_c correlation	0.96
Total number of atoms	5681
Average B, all atoms (Å ²)	38.0

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 8.06% 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

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: P3G, PEG, DMS, GOL, FLC

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	0.79	0/1426	1.25	6/1933 (0.3%)
1	B	0.80	0/1439	1.23	5/1954 (0.3%)
All	All	0.80	0/2865	1.24	11/3887 (0.3%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	2

There are no bond length outliers.

All (11) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed($^{\circ}$)	Ideal($^{\circ}$)
1	A	66	MET	CG-SD-CE	7.58	117.58	100.90
1	A	73	PHE	CA-CB-CG	-6.69	107.11	113.80
1	A	159	PHE	CA-CB-CG	6.39	120.19	113.80
1	A	128	THR	CA-CB-OG1	6.29	119.04	109.60
1	B	159	PHE	CA-CB-CG	5.93	119.73	113.80
1	B	169	ARG	CB-CG-CD	5.91	124.90	111.30
1	A	73	PHE	CB-CA-C	5.53	119.64	110.74
1	A	88	LYS	CB-CG-CD	5.35	123.61	111.30
1	B	54	ASP	CA-CB-CG	5.11	117.71	112.60
1	B	90	GLN	N-CA-CB	-5.07	103.14	110.84
1	B	54	ASP	CB-CA-C	5.02	118.62	111.74

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	25	GLY	Peptide
1	A	80	SER	Peptide

5.2 Too-close contacts ⓘ

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	1391	1319	1356	5	0
1	B	1402	1318	1358	12	0
2	A	6	5	8	0	0
2	B	18	15	24	1	0
3	A	4	6	6	4	0
3	B	16	24	24	4	0
4	A	13	4	5	1	0
5	A	17	26	26	1	0
6	B	7	8	10	0	0
7	A	40	0	0	2	0
7	B	42	0	0	1	0
All	All	2956	2725	2817	20	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 (20) 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:142:GLY:H	3:B:204:DMS:H22	1.44	0.82
4:A:203:FLC:HG1	4:A:203:FLC:OA2	2.00	0.62
1:A:15:SER:OG	3:A:202:DMS:H22	2.00	0.61
3:A:202:DMS:S	7:A:305:HOH:O	2.56	0.61
1:A:142:GLY:O	5:A:204:P3G:H162	2.04	0.58
1:B:141:SER:OG	3:B:204:DMS:H13	2.07	0.54
1:A:119:THR:HG21	1:A:179:LEU:HD22	1.90	0.54
1:A:11:ALA:HA	3:A:202:DMS:H13	1.90	0.53
1:B:109:SER:O	1:B:113:ARG:HG2	2.12	0.50
1:B:142:GLY:H	3:B:204:DMS:C2	2.21	0.50
3:A:202:DMS:C2	7:A:305:HOH:O	2.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:142:GLY:N	3:B:204:DMS:H22	2.22	0.47
1:B:42:MET:CE	1:B:58:ILE:HB	2.44	0.47
1:B:105:TRP:HZ2	2:B:207:GOL:H2	1.80	0.46
1:B:73:PHE:HB3	1:B:75:ARG:HH12	1.83	0.44
1:B:52:LEU:HD13	1:B:58:ILE:HD11	1.99	0.44
1:B:73:PHE:CB	1:B:75:ARG:HH12	2.31	0.44
1:B:42:MET:HE1	1:B:58:ILE:CD1	2.49	0.43
1:B:140:GLN:HG2	7:B:308:HOH:O	2.18	0.42
1:A:119:THR:HG21	1:A:179:LEU:CD2	2.52	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	173/184 (94%)	166 (96%)	7 (4%)	0	100	100
1	B	177/184 (96%)	172 (97%)	5 (3%)	0	100	100
All	All	350/368 (95%)	338 (97%)	12 (3%)	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	154/161 (96%)	149 (97%)	5 (3%)	34	24
1	B	155/161 (96%)	147 (95%)	8 (5%)	19	9
All	All	309/322 (96%)	296 (96%)	13 (4%)	25	15

All (13) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	17	LEU
1	A	80	SER
1	A	84	LEU
1	A	128	THR
1	A	153	GLN
1	B	80	SER
1	B	84	LEU
1	B	113	ARG
1	B	119	THR
1	B	126	GLU
1	B	140	GLN
1	B	153	GLN
1	B	162	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (5) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	95	HIS
1	A	177	GLN
1	B	36	GLN
1	B	140	GLN
1	B	163	HIS

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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](#)

12 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	GOL	B	208	-	5,5,5	0.50	0	5,5,5	1.18	1 (20%)
2	GOL	B	205	-	5,5,5	0.46	0	5,5,5	0.73	0
5	P3G	A	204	-	16,16,16	0.47	0	15,15,15	0.67	0
3	DMS	A	202	-	3,3,3	1.26	0	3,3,3	1.31	0
3	DMS	B	203	-	3,3,3	0.42	0	3,3,3	0.30	0
2	GOL	B	207	-	5,5,5	0.16	0	5,5,5	0.47	0
3	DMS	B	201	-	3,3,3	0.41	0	3,3,3	0.82	0
2	GOL	A	201	-	5,5,5	0.30	0	5,5,5	0.90	0
3	DMS	B	204	-	3,3,3	0.57	0	3,3,3	0.44	0
3	DMS	B	202	-	3,3,3	0.63	0	3,3,3	0.23	0
4	FLC	A	203	-	12,12,12	2.13	3 (25%)	17,17,17	3.40	7 (41%)
6	PEG	B	206	-	6,6,6	0.60	0	5,5,5	0.54	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	B	208	-	-	2/4/4/4	-
2	GOL	B	205	-	-	3/4/4/4	-
5	P3G	A	204	-	-	11/14/14/14	-
2	GOL	B	207	-	-	2/4/4/4	-
2	GOL	A	201	-	-	4/4/4/4	-
4	FLC	A	203	-	-	8/16/16/16	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
6	PEG	B	206	-	-	3/4/4/4	-

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	203	FLC	CB-CBC	5.83	1.59	1.53
4	A	203	FLC	OA2-CAC	-3.21	1.20	1.30
4	A	203	FLC	OG1-CGC	2.39	1.30	1.22

All (8) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	A	203	FLC	OB2-CBC-CB	8.81	128.34	113.05
4	A	203	FLC	OB1-CBC-CB	-6.62	112.88	122.25
4	A	203	FLC	OHB-CB-CA	-5.30	97.01	109.40
4	A	203	FLC	OHB-CB-CBC	4.41	115.05	108.86
4	A	203	FLC	OHB-CB-CG	-2.90	102.61	109.40
4	A	203	FLC	CG-CB-CA	2.46	115.57	109.16
4	A	203	FLC	CG-CB-CBC	2.31	115.07	110.11
2	B	208	GOL	O1-C1-C2	2.05	120.03	110.20

There are no chirality outliers.

All (33) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	201	GOL	C1-C2-C3-O3
4	A	203	FLC	CG-CB-CBC-OB1
4	A	203	FLC	OHB-CB-CBC-OB1
5	A	204	P3G	O5-C10-C9-O4
2	A	201	GOL	O2-C2-C3-O3
6	B	206	PEG	O1-C1-C2-O2
5	A	204	P3G	O3-C7-C8-O4
2	A	201	GOL	O1-C1-C2-C3
2	B	205	GOL	O1-C1-C2-C3
2	B	207	GOL	O1-C1-C2-C3
2	B	208	GOL	C1-C2-C3-O3
4	A	203	FLC	CG-CB-CBC-OB2
2	B	205	GOL	O1-C1-C2-O2
2	B	207	GOL	O1-C1-C2-O2
4	A	203	FLC	CAC-CA-CB-OHB
4	A	203	FLC	CB-CA-CAC-OA2

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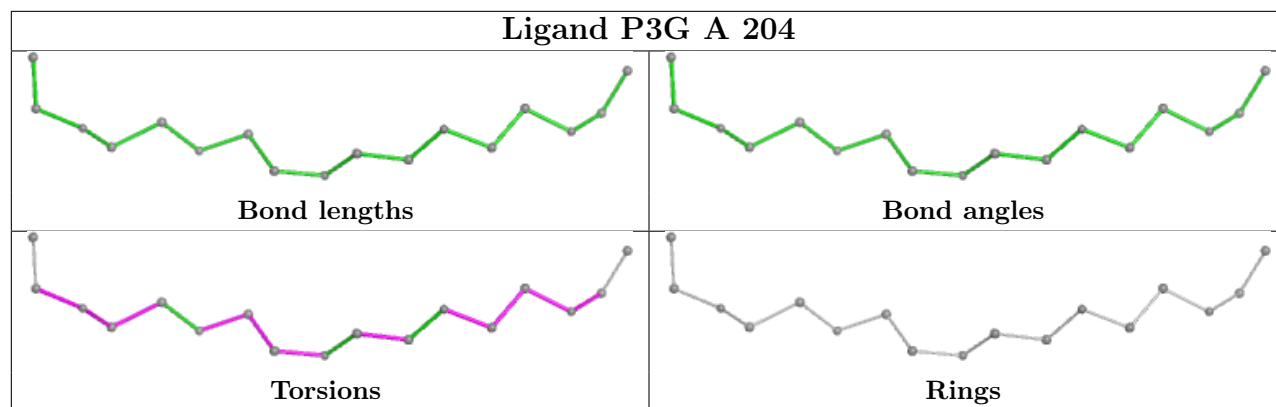
Mol	Chain	Res	Type	Atoms
6	B	206	PEG	O2-C3-C4-O4
4	A	203	FLC	CB-CA-CAC-OA1
5	A	204	P3G	C5-C6-O3-C7
4	A	203	FLC	OHB-CB-CBC-OB2
2	B	205	GOL	O2-C2-C3-O3
5	A	204	P3G	C8-C7-O3-C6
5	A	204	P3G	C14-C13-O6-C12
5	A	204	P3G	C10-C9-O4-C8
6	B	206	PEG	C4-C3-O2-C2
4	A	203	FLC	CA-CB-CBC-OB2
5	A	204	P3G	C9-C10-O5-C11
5	A	204	P3G	O5-C11-C12-O6
2	B	208	GOL	O2-C2-C3-O3
5	A	204	P3G	C16-C15-O7-C14
2	A	201	GOL	O1-C1-C2-O2
5	A	204	P3G	O6-C13-C14-O7
5	A	204	P3G	C13-C14-O7-C15

There are no ring outliers.

5 monomers are involved in 11 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	A	204	P3G	1	0
3	A	202	DMS	4	0
2	B	207	GOL	1	0
3	B	204	DMS	4	0
4	A	203	FLC	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 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 [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, 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	177/184 (96%)	0.07	5 (2%) 55 61	23, 33, 59, 95	0
1	B	179/184 (97%)	0.16	8 (4%) 39 45	22, 35, 65, 90	0
All	All	356/368 (96%)	0.11	13 (3%) 45 52	22, 34, 65, 95	0

All (13) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	80	SER	3.7
1	A	79	ARG	3.7
1	B	55	ALA	3.3
1	B	52	LEU	2.8
1	B	179	LEU	2.8
1	B	50	GLN	2.7
1	A	49	PHE	2.6
1	B	154	GLY	2.4
1	B	49	PHE	2.3
1	B	54	ASP	2.2
1	B	56	ALA	2.2
1	A	26	THR	2.1
1	A	180	ARG	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 oligosaccharides in this entry.

6.4 Ligands

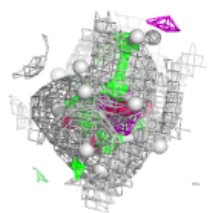
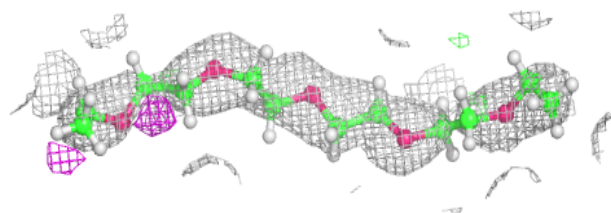
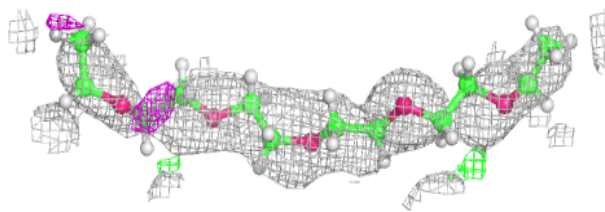
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
2	GOL	B	205	6/6	0.70	0.27	35,44,60,62	0
3	DMS	B	203	4/4	0.71	0.29	71,81,88,89	0
3	DMS	B	202	4/4	0.73	0.23	38,57,76,79	0
3	DMS	A	202	4/4	0.76	0.20	29,49,61,78	0
6	PEG	B	206	7/7	0.76	0.18	46,48,58,63	0
2	GOL	B	207	6/6	0.80	0.15	60,71,74,79	0
4	FLC	A	203	13/13	0.82	0.14	35,46,65,70	0
5	P3G	A	204	17/17	0.86	0.18	29,52,59,64	0
2	GOL	B	208	6/6	0.86	0.14	28,41,47,53	0
2	GOL	A	201	6/6	0.89	0.15	29,49,54,64	0
3	DMS	B	201	4/4	0.90	0.22	46,52,75,78	0
3	DMS	B	204	4/4	0.91	0.16	34,52,75,78	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 P3G A 204:

$2mF_o-DF_c$ (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.