



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 6, 2026 – 12:47 PM UTC

PDB ID : 5W5Z / pdb_00005w5z
Title : Crystal structure of BAXP168G in complex with an activating antibody at high resolution
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Deposited on : 2017-06-16
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 ⓘ 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
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

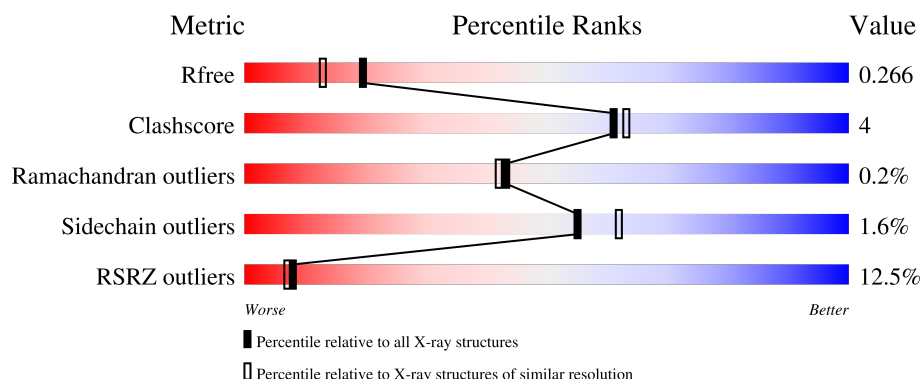
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.00 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 (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	10052 (2.00-2.00)
Clashscore	190562	11152 (2.00-2.00)
Ramachandran outliers	187476	11031 (2.00-2.00)
Sidechain outliers	187428	11029 (2.00-2.00)
RSRZ outliers	180081	10067 (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 $\leq 5\%$. 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	L	213	
2	H	234	
3	A	163	

2 Entry composition

There are 8 unique types of molecules in this entry. The entry contains 4218 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 3C10 Fab light chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	L	212	Total	C	N	O	S	0	2	0
			1645	1026	273	339	7			

- Molecule 2 is a protein called 3C10 Fab heavy chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	H	210	Total	C	N	O	S	0	1	0
			1574	1006	256	305	7			

- Molecule 3 is a protein called Apoptosis regulator BAX.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	A	109	Total	C	N	O	S	0	0	0
			823	532	139	149	3			

There are 5 discrepancies between the modelled and reference sequences:

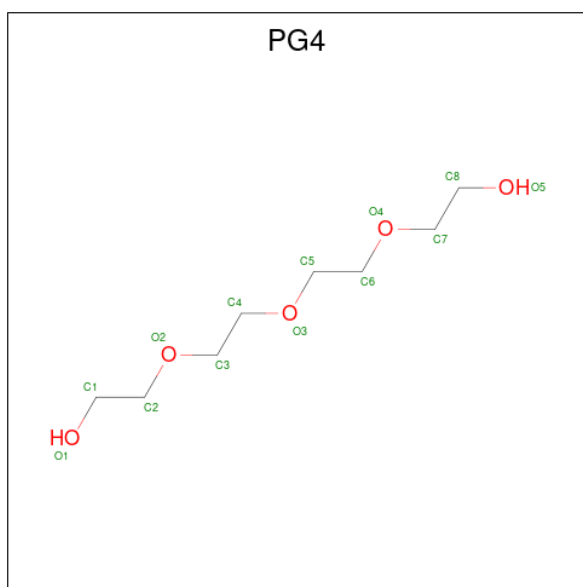
Chain	Residue	Modelled	Actual	Comment	Reference
A	62	SER	CYS	engineered mutation	UNP Q07812
A	126	SER	CYS	engineered mutation	UNP Q07812
A	168	GLY	PRO	engineered mutation	UNP Q07812
A	193	SER	-	expression tag	UNP Q07812
A	194	SER	-	expression tag	UNP Q07812

- Molecule 4 is 1,2-ETHANEDIOL (CCD ID: EDO) (formula: C₂H₆O₂).



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

- Molecule 5 is TETRAETHYLENE GLYCOL (CCD ID: PG4) (formula: $C_8H_{18}O_5$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	L	1	Total	C	O	0	0
			13	8	5		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	L	1	Total	C	O	0	0
			13	8	5		

- Molecule 6 is TRIETHYLENE GLYCOL (CCD ID: PGE) (formula: $C_6H_{14}O_4$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
6	H	1	Total	C	O	0	0
			10	6	4		
6	H	1	Total	C	O	0	0
			10	6	4		

- Molecule 7 is 2-(N-MORPHOLINO)-ETHANESULFONIC ACID (CCD ID: MES) (formula: $C_6H_{13}NO_4S$).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
7	H	1	Total	C	N	O	S	0	0
			12	6	1	4	1		

- Molecule 8 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
8	L	66	Total	O	0	0
			66	66		
8	H	35	Total	O	0	0
			35	35		
8	A	5	Total	O	0	0
			5	5		

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.

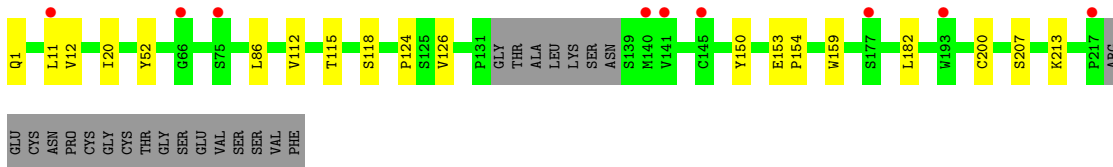
- Molecule 1: 3C10 Fab light chain

Chain L: 



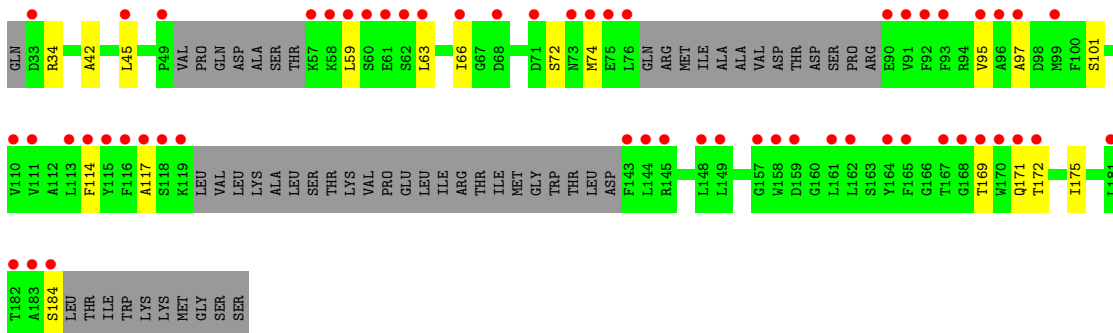
- Molecule 2: 3C10 Fab heavy chain

Chain H: 



- Molecule 3: Apoptosis regulator BAX

Chain A: 



4 Data and refinement statistics

Property	Value	Source
Space group	P 41 21 2	Depositor
Cell constants a, b, c, α , β , γ	67.86Å 67.86Å 264.24Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	47.99 – 2.00 47.99 – 2.00	Depositor EDS
% Data completeness (in resolution range)	99.8 (47.99-2.00) 99.8 (47.99-2.00)	Depositor EDS
R_{merge}	0.11	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.13 (at 2.00Å)	Xtriage
Refinement program	PHENIX 1.10_2152	Depositor
R, R_{free}	0.217 , 0.268 0.217 , 0.266	Depositor DCC
R_{free} test set	1997 reflections (4.62%)	wwPDB-VP
Wilson B-factor (Å ²)	38.6	Xtriage
Anisotropy	0.090	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.37 , 66.9	EDS
L-test for twinning ²	$\langle L \rangle = 0.46$, $\langle L^2 \rangle = 0.28$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	4218	wwPDB-VP
Average B, all atoms (Å ²)	52.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.74% 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: EDO, PGE, PG4, PCA, MES

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	L	0.35	0/1679	0.56	0/2282
2	H	0.30	0/1608	0.51	0/2200
3	A	0.22	0/839	0.41	0/1132
All	All	0.31	0/4126	0.51	0/5614

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	H(model)	H(added)	Clashes	Symm-Clashes
1	L	1645	0	1582	13	0
2	H	1574	0	1536	9	0
3	A	823	0	760	12	0
4	L	12	0	18	0	0
5	L	26	0	36	0	0
6	H	20	0	28	0	0
7	H	12	0	12	1	0
8	A	5	0	0	0	0
8	H	35	0	0	0	0
8	L	66	0	0	1	0
All	All	4218	0	3972	34	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 (34) 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)
2:H:124:PRO:HB3	2:H:150:TYR:HB3	1.70	0.71
3:A:169:THR:HB	3:A:172:THR:H	1.56	0.70
1:L:83:VAL:HG21	1:L:105:ILE:HG12	1.80	0.64
1:L:154:GLN:NE2	8:L:401:HOH:O	2.28	0.59
1:L:149:ILE:HD12	1:L:154:GLN:HG3	1.85	0.58
3:A:114:PHE:HA	3:A:117:ALA:HB3	1.87	0.57
3:A:171:GLN:O	3:A:175:ILE:HG12	2.09	0.53
1:L:37:GLN:HB2	1:L:47:LEU:HD11	1.91	0.52
1:L:112:PRO:HB3	1:L:138:PHE:HB3	1.92	0.50
1:L:192:THR:HG23	1:L:205:VAL:HG13	1.94	0.49
3:A:169:THR:HG22	3:A:171:GLN:H	1.78	0.49
1:L:149:ILE:HD11	1:L:178:LEU:HD21	1.94	0.48
1:L:83:VAL:CG2	1:L:105:ILE:HG12	2.44	0.48
1:L:139:TYR:CG	1:L:140:PRO:HA	2.49	0.47
2:H:11[A]:LEU:HD13	2:H:115:THR:HB	1.97	0.46
2:H:124:PRO:CB	2:H:150:TYR:HB3	2.44	0.46
2:H:159:TRP:CZ3	2:H:200:CYS:HB3	2.50	0.46
3:A:42:ALA:HB1	3:A:45:LEU:HD22	1.98	0.46
1:L:106:LYS:HE3	1:L:106:LYS:HB2	1.72	0.45
3:A:72:SER:HA	3:A:74:MET:HE2	1.99	0.45
2:H:20:ILE:HD12	2:H:112:VAL:HG11	1.99	0.45
2:H:12:VAL:HG21	2:H:86:LEU:HD13	2.00	0.44
3:A:95:VAL:HG13	3:A:184:SER:OG	2.19	0.43
7:H:303:MES:H51	7:H:303:MES:H81	1.71	0.43
3:A:63:LEU:O	3:A:66:ILE:HG22	2.17	0.43
1:L:156:ASP:OD1	1:L:156:ASP:N	2.23	0.42
3:A:59:LEU:O	3:A:63:LEU:HG	2.18	0.42
1:L:24:LYS:HB3	1:L:24:LYS:HE2	1.80	0.41
2:H:52:TYR:CD2	3:A:34:ARG:HA	2.55	0.41
2:H:153:GLU:HA	2:H:154:PRO:HA	1.83	0.41
3:A:97:ALA:O	3:A:101:SER:HB3	2.20	0.41
3:A:114:PHE:C	3:A:117:ALA:H	2.28	0.41
2:H:126:VAL:O	2:H:213:LYS:HE3	2.21	0.40
1:L:105:ILE:HD13	1:L:105:ILE:HA	1.94	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	L	212/213 (100%)	206 (97%)	6 (3%)	0	100	100
2	H	207/234 (88%)	197 (95%)	9 (4%)	1 (0%)	24	21
3	A	101/163 (62%)	91 (90%)	10 (10%)	0	100	100
All	All	520/610 (85%)	494 (95%)	25 (5%)	1 (0%)	43	42

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	H	207	SER

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	L	193/193 (100%)	188 (97%)	5 (3%)	40	44
2	H	174/197 (88%)	172 (99%)	2 (1%)	65	73
3	A	76/135 (56%)	76 (100%)	0	100	100
All	All	443/525 (84%)	436 (98%)	7 (2%)	55	62

All (7) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	L	33	LEU
1	L	142	ASP

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Mol	Chain	Res	Type
1	L	156	ASP
1	L	167	SER
1	L	183	VAL
2	H	118	SER
2	H	182	LEU

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

Mol	Chain	Res	Type
1	L	38	GLN
1	L	39	ASN
1	L	79	GLN
1	L	154	GLN
2	H	39	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

1 non-standard protein/DNA/RNA residue is 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	PCA	H	1	2	7,8,9	1.87	1 (14%)	9,10,12	1.99	5 (55%)

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	PCA	H	1	2	-	0/0/11/13	0/1/1/1

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	H	1	PCA	CD-N	4.78	1.46	1.34

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	H	1	PCA	CB-CA-N	2.93	111.31	103.24
2	H	1	PCA	CA-N-CD	-2.72	104.27	113.58
2	H	1	PCA	CG-CD-N	2.57	114.67	108.39
2	H	1	PCA	OE-CD-CG	-2.29	122.64	126.72
2	H	1	PCA	CB-CA-C	-2.15	109.70	112.66

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

8 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	$\# Z > 2$
4	EDO	L	303	-	3,3,3	0.46	0	2,2,2	0.31	0
7	MES	H	303	-	12,12,12	2.29	1 (8%)	15,16,16	2.37	6 (40%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
5	PG4	L	304	-	12,12,12	0.48	0	11,11,11	0.42	0
6	PGE	H	301	-	9,9,9	0.31	0	8,8,8	0.35	0
4	EDO	L	302	-	3,3,3	0.41	0	2,2,2	0.29	0
6	PGE	H	302	-	9,9,9	0.33	0	8,8,8	0.30	0
4	EDO	L	301	-	3,3,3	0.46	0	2,2,2	0.21	0
5	PG4	L	305	-	12,12,12	0.58	0	11,11,11	0.26	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
4	EDO	L	303	-	-	0/1/1/1	-
7	MES	H	303	-	-	1/6/14/14	0/1/1/1
5	PG4	L	304	-	-	1/10/10/10	-
6	PGE	H	301	-	-	5/7/7/7	-
4	EDO	L	302	-	-	0/1/1/1	-
6	PGE	H	302	-	-	3/7/7/7	-
4	EDO	L	301	-	-	1/1/1/1	-
5	PG4	L	305	-	-	4/10/10/10	-

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	H	303	MES	C8-S	-7.66	1.66	1.77

All (6) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	H	303	MES	C5-N4-C3	5.38	120.42	108.84
7	H	303	MES	C7-N4-C3	3.20	119.76	111.24
7	H	303	MES	C2-C3-N4	-2.98	105.59	110.12
7	H	303	MES	C7-N4-C5	2.94	119.07	111.24
7	H	303	MES	C6-C5-N4	-2.48	106.36	110.12
7	H	303	MES	O1S-S-C8	2.38	110.32	106.73

There are no chirality outliers.

All (15) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
7	H	303	MES	C8-C7-N4-C3
6	H	302	PGE	O2-C3-C4-O3
6	H	302	PGE	O3-C5-C6-O4
6	H	301	PGE	O2-C3-C4-O3
6	H	301	PGE	O3-C5-C6-O4
6	H	301	PGE	O1-C1-C2-O2
6	H	302	PGE	O1-C1-C2-O2
5	L	305	PG4	C3-C4-O3-C5
5	L	305	PG4	C5-C6-O4-C7
5	L	304	PG4	O1-C1-C2-O2
5	L	305	PG4	C8-C7-O4-C6
6	H	301	PGE	C3-C4-O3-C5
4	L	301	EDO	O1-C1-C2-O2
5	L	305	PG4	O2-C3-C4-O3
6	H	301	PGE	C4-C3-O2-C2

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
7	H	303	MES	1	0

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	L	212/213 (99%)	0.18	1 (0%)	87 87	18, 38, 69, 125	2 (0%)
2	H	209/234 (89%)	0.54	9 (4%)	40 39	27, 50, 76, 98	1 (0%)
3	A	109/163 (66%)	2.00	56 (51%)	0 0	34, 72, 118, 142	0
All	All	530/610 (86%)	0.70	66 (12%)	8 7	18, 48, 95, 142	3 (0%)

All (66) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
3	A	116	PHE	7.5
3	A	93	PHE	6.3
3	A	91	VAL	6.0
3	A	162	LEU	5.8
2	H	11[A]	LEU	4.7
3	A	59	LEU	4.6
3	A	63	LEU	4.4
3	A	113	LEU	4.1
3	A	158	TRP	4.1
3	A	97	ALA	4.1
3	A	92	PHE	3.9
3	A	167	THR	3.7
3	A	110	VAL	3.7
3	A	114	PHE	3.7
3	A	61	GLU	3.6
3	A	95	VAL	3.5
3	A	183	ALA	3.4
3	A	143	PHE	3.4
3	A	115	TYR	3.3
3	A	33	ASP	3.3
3	A	45	LEU	3.2
3	A	58	LYS	3.2
3	A	49	PRO	3.1

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Mol	Chain	Res	Type	RSRZ
3	A	99	MET	3.0
3	A	76	LEU	2.9
3	A	172	THR	2.9
3	A	57	LYS	2.9
3	A	170	TRP	2.9
2	H	177	SER	2.8
3	A	169	THR	2.7
3	A	60	SER	2.7
3	A	165	PHE	2.7
3	A	184	SER	2.6
3	A	74	MET	2.6
3	A	75	GLU	2.6
3	A	145	ARG	2.6
2	H	140	MET	2.5
3	A	62	SER	2.5
3	A	118	SER	2.5
2	H	141	VAL	2.5
2	H	217	PRO	2.5
2	H	66	GLY	2.4
3	A	144	LEU	2.4
1	L	161	SER	2.4
3	A	71	ASP	2.4
3	A	96	ALA	2.4
3	A	119	LYS	2.3
2	H	193	TRP	2.3
3	A	73	ASN	2.3
3	A	90	GLU	2.3
3	A	161	LEU	2.3
3	A	181	LEU	2.2
3	A	68	ASP	2.2
3	A	171	GLN	2.2
3	A	148	LEU	2.2
3	A	157	GLY	2.2
3	A	117	ALA	2.2
3	A	66	ILE	2.1
3	A	159	ASP	2.1
3	A	182	THR	2.1
3	A	168	GLY	2.1
2	H	145	CYS	2.1
3	A	149	LEU	2.1
2	H	75	SER	2.0
3	A	164	TYR	2.0

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Mol	Chain	Res	Type	RSRZ
3	A	111	VAL	2.0

6.2 Non-standard residues in protein, DNA, RNA chains [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(Å ²)	Q<0.9
2	PCA	H	1	8/9	0.93	0.10	35,42,50,53	0

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(Å ²)	Q<0.9
7	MES	H	303	12/12	0.81	0.21	104,113,126,133	0
6	PGE	H	301	10/10	0.82	0.14	65,87,92,93	0
5	PG4	L	305	13/13	0.82	0.16	57,76,94,100	0
6	PGE	H	302	10/10	0.89	0.12	60,72,77,79	0
4	EDO	L	303	4/4	0.90	0.17	77,80,81,82	0
4	EDO	L	302	4/4	0.91	0.13	56,57,57,64	0
4	EDO	L	301	4/4	0.92	0.12	60,67,68,70	0
5	PG4	L	304	13/13	0.93	0.11	31,44,70,78	0

6.5 Other polymers [i](#)

There are no such residues in this entry.