



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 12, 2026 – 05:19 PM UTC

PDB ID : 6A89 / pdb_00006a89
Title : Crystal structure of the ternary complex of peptidoglycan recognition protein (PGRP-S) with Tartaric acid, Ribose and 2,6-DIAMINOPIMELIC ACID at 2.11 Å resolution
Authors : Bairagya, H.R.; Shokeen, A.; Sharma, P.; Singh, P.K.; Sharma, S.; Singh, T.P.
Deposited on : 2018-07-06
Resolution : 2.11 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

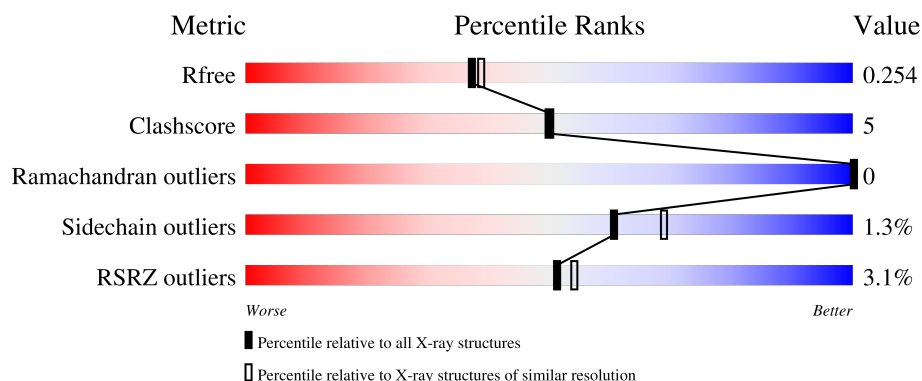
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.11 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	8290 (2.14-2.10)
Clashscore	190562	8817 (2.14-2.10)
Ramachandran outliers	187476	8738 (2.14-2.10)
Sidechain outliers	187428	8739 (2.14-2.10)
RSRZ outliers	180081	8294 (2.14-2.10)

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	167	3% 93% 7%
1	B	167	2% 87% 12% .
1	C	167	4% 87% 13% .
1	D	167	4% 86% 13% .

2 Entry composition [i](#)

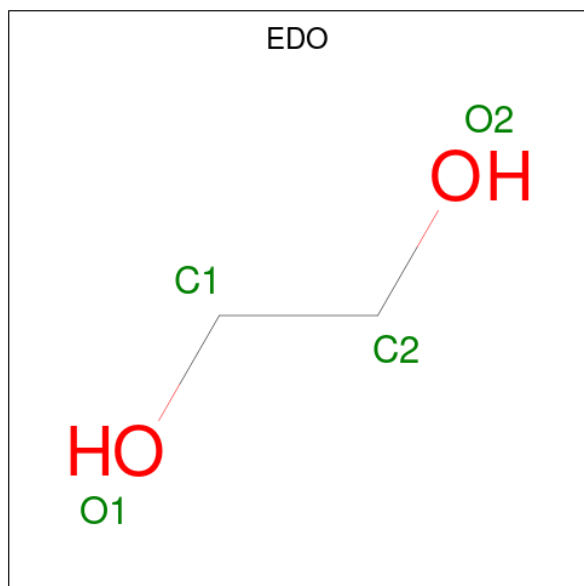
There are 7 unique types of molecules in this entry. The entry contains 5559 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 Peptidoglycan recognition protein 1.

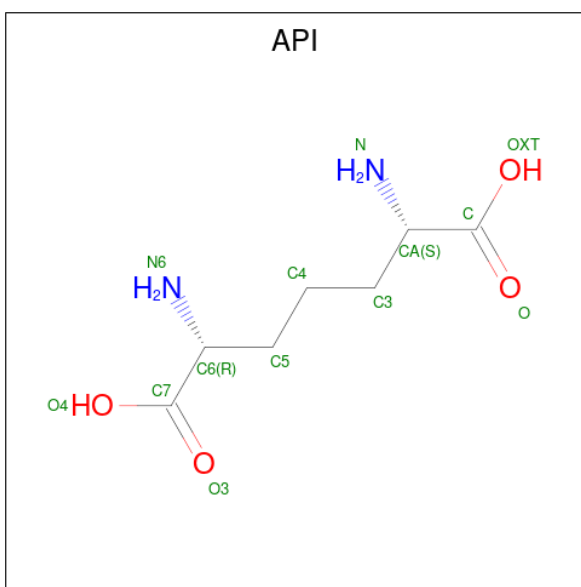
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	167	Total	C	N	O	S	0	0	0
			1306	815	250	233	8			
1	B	167	Total	C	N	O	S	0	0	0
			1306	815	250	233	8			
1	C	167	Total	C	N	O	S	0	0	0
			1305	815	250	232	8			
1	D	167	Total	C	N	O	S	0	0	0
			1306	815	250	233	8			

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



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

- Molecule 3 is 2,6-DIAMINOPIMELIC ACID (CCD ID: API) (formula: C₇H₁₄N₂O₄).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	B	1	Total	C	N	O	0	0
			13	7	2	4		

- Molecule 4 is GLYCEROL (CCD ID: GOL) (formula: $C_3H_8O_3$).



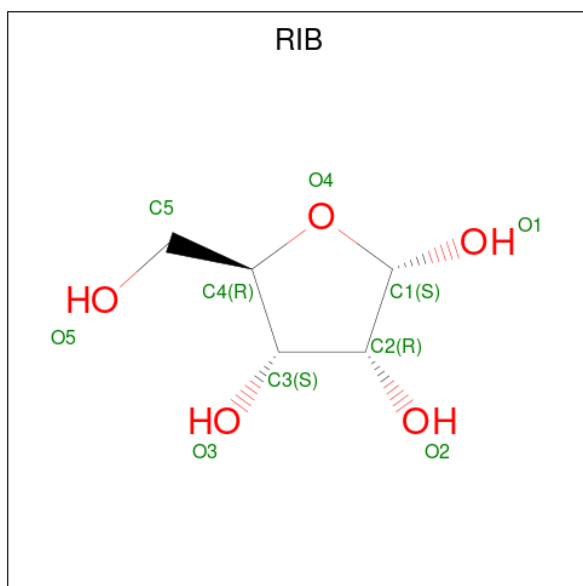
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	D	1	Total	C	O	0	0
			6	3	3		

- Molecule 5 is L(+)-TARTARIC ACID (CCD ID: TLA) (formula: $C_4H_6O_6$).



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

- Molecule 6 is alpha-D-ribofuranose (CCD ID: RIB) (formula: $C_5H_{10}O_5$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
6	D	1	Total	C	O	0	0
			10	5	5		

- Molecule 7 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	A	83	Total 83	O 83	0	0
7	B	64	Total 64	O 64	0	0
7	C	85	Total 85	O 85	0	0
7	D	61	Total 61	O 61	0	0

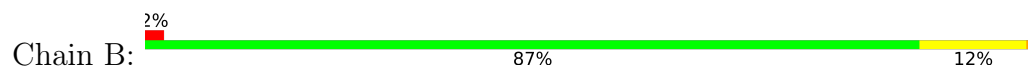
3 Residue-property plots [i](#)

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.

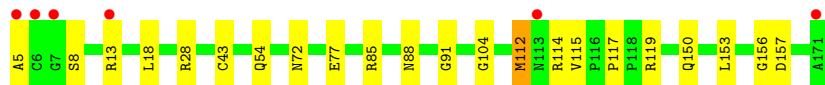
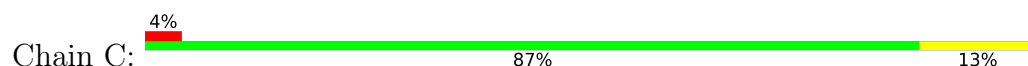
- Molecule 1: Peptidoglycan recognition protein 1



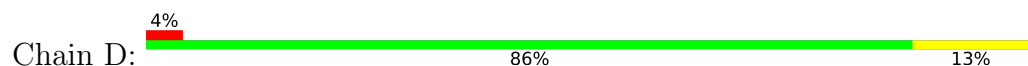
- Molecule 1: Peptidoglycan recognition protein 1



- Molecule 1: Peptidoglycan recognition protein 1



- Molecule 1: Peptidoglycan recognition protein 1



4 Data and refinement statistics

Property	Value	Source
Space group	I 2 2 2	Depositor
Cell constants a, b, c, α , β , γ	89.50Å 101.37Å 163.04Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	86.09 – 2.11 86.09 – 2.12	Depositor EDS
% Data completeness (in resolution range)	100.0 (86.09-2.11) 99.9 (86.09-2.12)	Depositor EDS
R_{merge}	0.09	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.42 (at 2.12Å)	Xtriage
Refinement program	REFMAC 5.8.0158	Depositor
R, R_{free}	0.191 , 0.249 0.200 , 0.254	Depositor DCC
R_{free} test set	2161 reflections (5.07%)	wwPDB-VP
Wilson B-factor (Å ²)	38.0	Xtriage
Anisotropy	0.851	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 36.1	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.34$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	5559	wwPDB-VP
Average B, all atoms (Å ²)	48.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.29% 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: RIB, GOL, TLA, API, EDO

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	0.97	0/1341	1.05	2/1824 (0.1%)
1	B	0.99	1/1341 (0.1%)	1.08	1/1824 (0.1%)
1	C	1.06	0/1340	1.06	4/1824 (0.2%)
1	D	1.10	2/1341 (0.1%)	1.13	2/1824 (0.1%)
All	All	1.03	3/5363 (0.1%)	1.08	9/7296 (0.1%)

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	45	THR	N-CA	-6.62	1.39	1.45
1	D	151	PRO	C-O	-5.58	1.19	1.24
1	B	122	ARG	C-O	-5.14	1.18	1.24

All (9) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	6	CYS	N-CA-C	8.59	129.09	110.80
1	B	7	GLY	N-CA-C	-5.63	103.36	112.31
1	D	45	THR	N-CA-C	-5.49	101.88	108.25
1	C	115	VAL	CA-C-N	-5.27	115.86	119.66
1	C	115	VAL	C-N-CA	-5.27	115.86	119.66
1	C	18	LEU	N-CA-C	-5.16	103.67	110.43
1	C	112	MET	CG-SD-CE	5.12	112.16	100.90
1	A	152	THR	N-CA-C	5.06	121.57	110.80
1	A	153	LEU	N-CA-C	5.04	118.53	112.38

There are no chirality outliers.

There are no planarity outliers.

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	1306	0	1261	7	0
1	B	1306	0	1261	13	0
1	C	1305	0	1261	16	0
1	D	1306	0	1261	19	1
2	A	4	0	6	0	0
3	B	13	0	7	1	0
4	D	6	0	8	0	0
5	D	10	0	4	0	0
6	D	10	0	0	0	0
7	A	83	0	0	2	0
7	B	64	0	0	1	0
7	C	85	0	0	7	1
7	D	61	0	0	5	1
All	All	5559	0	5069	55	3

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 5.

All (55) 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:150:GLN:HG2	7:C:214:HOH:O	1.53	1.09
1:D:8:SER:HA	7:D:315:HOH:O	1.55	1.04
1:C:117:PRO:HB2	7:C:209:HOH:O	1.62	0.98
1:C:8:SER:HA	7:C:201:HOH:O	1.73	0.87
1:D:28:ARG:HH21	1:D:88:ASN:HD21	1.26	0.83
1:A:72:ASN:HD22	1:A:104:GLY:H	1.23	0.82
1:D:58:SER:HA	7:D:330:HOH:O	1.81	0.80
1:A:28:ARG:NH1	7:A:301:HOH:O	2.20	0.74
1:C:72:ASN:HD22	1:C:104:GLY:H	1.37	0.71
1:B:72:ASN:HD22	1:B:104:GLY:H	1.39	0.70
1:D:72:ASN:HD22	1:D:104:GLY:H	1.38	0.68
1:C:112:MET:HE2	1:C:157:ASP:H	1.62	0.64
1:D:74:LEU:HD22	1:D:108:MET:HE3	1.79	0.64
1:C:85:ARG:HD2	1:C:91:GLY:HA2	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:112:MET:HE2	1:C:157:ASP:N	2.14	0.62
1:B:72:ASN:ND2	1:B:104:GLY:H	2.00	0.60
1:A:72:ASN:ND2	1:A:104:GLY:H	1.98	0.60
1:D:28:ARG:HH21	1:D:88:ASN:ND2	1.99	0.59
1:B:97:THR:HG1	1:B:98:TRP:CD1	2.20	0.58
1:C:112:MET:HE3	1:C:153:LEU:HB3	1.87	0.57
1:D:53:ALA:CA	1:D:108:MET:HE1	2.34	0.57
1:B:115:VAL:CG2	1:B:162:ILE:HD11	2.34	0.57
1:B:37:HIS:HD2	1:B:111:TYR:H	1.56	0.54
1:C:43:CYS:O	1:C:77:GLU:HB2	2.08	0.53
1:C:72:ASN:ND2	1:C:104:GLY:H	2.07	0.53
1:D:28:ARG:NH2	1:D:88:ASN:HD21	2.03	0.53
1:D:6:CYS:SG	1:D:7:GLY:N	2.79	0.52
1:C:28:ARG:HH21	1:C:88:ASN:HD21	1.58	0.52
1:D:72:ASN:ND2	1:D:104:GLY:H	2.07	0.52
1:C:54:GLN:CD	7:C:218:HOH:O	2.52	0.51
1:D:61:VAL:HB	7:D:330:HOH:O	2.10	0.51
1:B:155:PRO:HB2	1:B:159:LEU:HD23	1.92	0.51
1:D:85:ARG:HD2	1:D:91:GLY:HA2	1.92	0.51
1:A:85:ARG:HD2	1:A:91:GLY:HA2	1.94	0.50
1:C:112:MET:HE2	1:C:156:GLY:HA2	1.93	0.49
1:B:43:CYS:O	1:B:77:GLU:HB2	2.12	0.48
1:C:114:ARG:NH2	7:C:203:HOH:O	2.46	0.47
1:B:42:HIS:CD2	7:B:323:HOH:O	2.68	0.47
1:D:62:ARG:HG2	7:D:330:HOH:O	2.17	0.45
1:B:6:CYS:HA	3:B:201:API:H42	1.97	0.45
1:B:28:ARG:HB3	1:B:28:ARG:NH2	2.32	0.45
1:D:53:ALA:N	1:D:108:MET:HE1	2.33	0.44
1:D:42:HIS:HD2	7:D:337:HOH:O	1.99	0.44
1:C:5:ALA:HB3	7:C:281:HOH:O	2.18	0.43
1:D:53:ALA:HB2	1:D:108:MET:HE1	2.00	0.42
1:D:53:ALA:HA	1:D:108:MET:CE	2.49	0.42
1:D:127:LEU:O	1:D:130:CYS:HB3	2.18	0.42
1:A:12:ARG:HG3	1:A:83:GLU:OE1	2.19	0.42
1:A:71:TYR:CD1	1:A:106:SER:HB2	2.55	0.41
1:D:60:HIS:O	1:D:66:TRP:HB2	2.20	0.41
1:C:119:ARG:NH1	7:C:209:HOH:O	2.54	0.41
1:B:28:ARG:HB3	1:B:28:ARG:CZ	2.51	0.41
1:A:66:TRP:CD1	7:A:373:HOH:O	2.74	0.41
1:B:11:PRO:O	1:B:12:ARG:C	2.64	0.41
1:B:77:GLU:OE2	1:B:114:ARG:NH2	2.55	0.40

All (3) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:C:204:HOH:O	7:C:209:HOH:O[4_556]	1.99	0.21
7:D:301:HOH:O	7:D:301:HOH:O[2_565]	2.01	0.19
1:D:6:CYS:O	1:D:126:ASN:OD1[2_565]	2.10	0.10

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	165/167 (99%)	160 (97%)	5 (3%)	0	100	100
1	B	165/167 (99%)	156 (94%)	9 (6%)	0	100	100
1	C	165/167 (99%)	158 (96%)	7 (4%)	0	100	100
1	D	165/167 (99%)	155 (94%)	10 (6%)	0	100	100
All	All	660/668 (99%)	629 (95%)	31 (5%)	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	135/135 (100%)	135 (100%)	0	100	100
1	B	135/135 (100%)	131 (97%)	4 (3%)	36	40
1	C	135/135 (100%)	134 (99%)	1 (1%)	76	83

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	D	135/135 (100%)	133 (98%)	2 (2%)	57	65
All	All	540/540 (100%)	533 (99%)	7 (1%)	61	69

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

Mol	Chain	Res	Type
1	B	21	GLU
1	B	28	ARG
1	B	37	HIS
1	B	158	ARG
1	C	13	ARG
1	D	8	SER
1	D	23	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (13) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	72	ASN
1	A	150	GLN
1	B	37	HIS
1	B	72	ASN
1	B	125	GLN
1	B	168	HIS
1	C	54	GLN
1	C	72	ASN
1	C	88	ASN
1	D	52	GLN
1	D	72	ASN
1	D	88	ASN
1	D	168	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](#)

5 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	$\# Z > 2$
6	RIB	D	203	-	10,10,10	0.56	0	13,14,14	1.24	1 (7%)
5	TLA	D	202	-	9,9,9	1.12	0	12,12,12	1.37	2 (16%)
2	EDO	A	201	-	3,3,3	0.47	0	2,2,2	0.12	0
4	GOL	D	201	-	5,5,5	0.60	0	5,5,5	0.63	0
3	API	B	201	-	10,12,12	0.94	0	9,15,15	0.69	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
6	RIB	D	203	-	-	1/2/18/18	0/1/1/1
5	TLA	D	202	-	-	0/12/12/12	-
2	EDO	A	201	-	-	0/1/1/1	-
4	GOL	D	201	-	-	3/4/4/4	-
3	API	B	201	-	-	8/14/14/14	-

There are no bond length outliers.

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	D	202	TLA	O11-C1-C2	2.59	120.51	113.31
6	D	203	RIB	C1-C2-C3	2.55	105.42	102.29
5	D	202	TLA	O11-C1-O1	-2.36	118.72	124.08

There are no chirality outliers.

All (12) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	B	201	API	C4-C5-C6-C7
3	B	201	API	N6-C6-C7-O4
4	D	201	GOL	O1-C1-C2-C3
3	B	201	API	C3-C4-C5-C6
3	B	201	API	CA-C3-C4-C5
6	D	203	RIB	C3-C4-C5-O5
4	D	201	GOL	O1-C1-C2-O2
3	B	201	API	O-C-CA-N
4	D	201	GOL	O2-C2-C3-O3
3	B	201	API	OXT-C-CA-N
3	B	201	API	C4-C5-C6-N6
3	B	201	API	N6-C6-C7-O3

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	B	201	API	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	A	167/167 (100%)	0.10	5 (2%)	52	55	35, 45, 69, 100	0
1	B	167/167 (100%)	0.34	4 (2%)	59	62	35, 48, 73, 113	0
1	C	167/167 (100%)	0.04	6 (3%)	46	49	33, 42, 65, 96	0
1	D	167/167 (100%)	0.23	6 (3%)	46	49	32, 44, 73, 102	0
All	All	668/668 (100%)	0.18	21 (3%)	51	54	32, 45, 71, 113	0

All (21) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	152	THR	5.0
1	B	5	ALA	4.5
1	A	5	ALA	4.1
1	D	5	ALA	4.0
1	D	47	ALA	3.1
1	A	151	PRO	3.0
1	C	171	ALA	3.0
1	C	6	CYS	2.9
1	B	28	ARG	2.8
1	B	7	GLY	2.7
1	C	13	ARG	2.7
1	C	5	ALA	2.6
1	D	6	CYS	2.6
1	D	113	ASN	2.5
1	B	115	VAL	2.3
1	D	171	ALA	2.3
1	D	8	SER	2.2
1	C	7	GLY	2.1
1	A	97	THR	2.1
1	C	113	ASN	2.0
1	A	6	CYS	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
3	API	B	201	13/13	0.65	0.15	76,86,88,90	0
2	EDO	A	201	4/4	0.83	0.15	67,71,73,78	0
6	RIB	D	203	10/10	0.88	0.15	55,61,66,68	10
5	TLA	D	202	10/10	0.92	0.08	37,39,43,47	0
4	GOL	D	201	6/6	0.96	0.08	48,55,62,68	0

6.5 Other polymers [i](#)

There are no such residues in this entry.