



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 6, 2026 – 06:30 PM UTC

PDB ID : 3T5T / pdb_00003t5t
Title : Vall from streptomyces hygroscopicus in apo form
Authors : Zhang, H.; Zheng, L.; Qian, H.
Deposited on : 2011-07-28
Resolution : 1.70 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

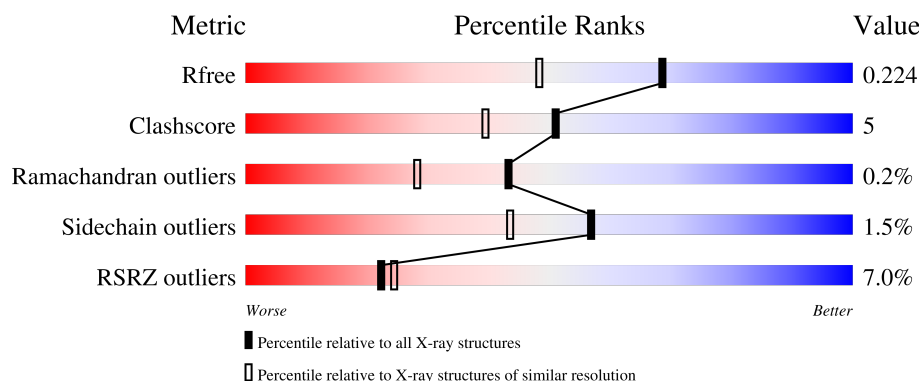
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.70 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	5551 (1.70-1.70)
Clashscore	190562	5924 (1.70-1.70)
Ramachandran outliers	187476	5846 (1.70-1.70)
Sidechain outliers	187428	5846 (1.70-1.70)
RSRZ outliers	180081	5554 (1.70-1.70)

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	496	7% 86% 8% • 5%
1	B	496	6% 89% 6% • •

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 8233 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.

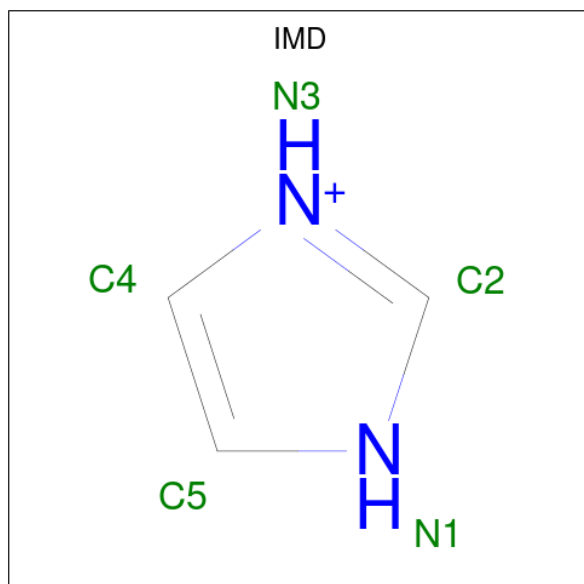
- Molecule 1 is a protein called Putative glycosyltransferase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	470	Total	C	N	O	S	0	0	0
			3679	2304	678	685	12			
1	B	475	Total	C	N	O	S	0	0	0
			3708	2320	683	693	12			

- Molecule 2 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	5	Total	Mg	0	0
			5	5		
2	B	3	Total	Mg	0	0
			3	3		

- Molecule 3 is IMIDAZOLE (CCD ID: IMD) (formula: C₃H₅N₂).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	C	N	0	0
			5	3	2		
3	B	1	Total	C	N	0	0
			5	3	2		

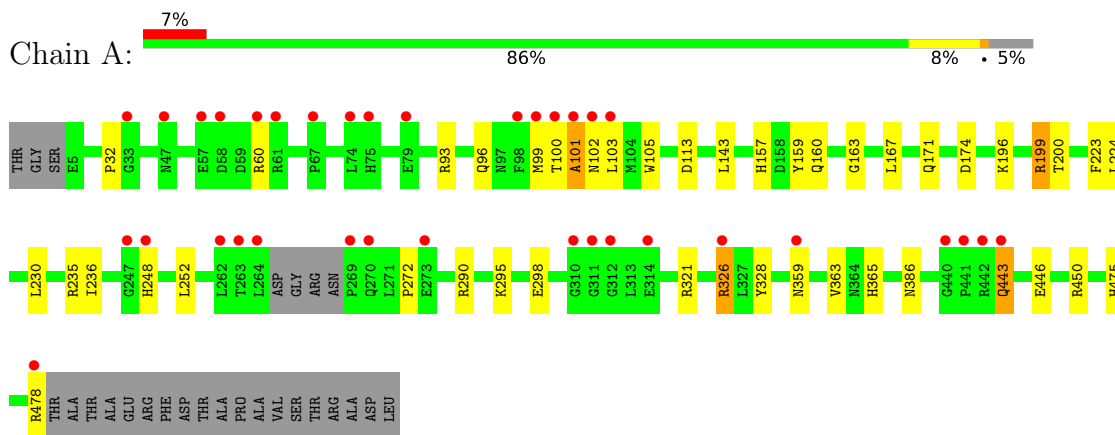
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	377	Total	O	0	0
			377	377		
4	B	451	Total	O	0	0
			451	451		

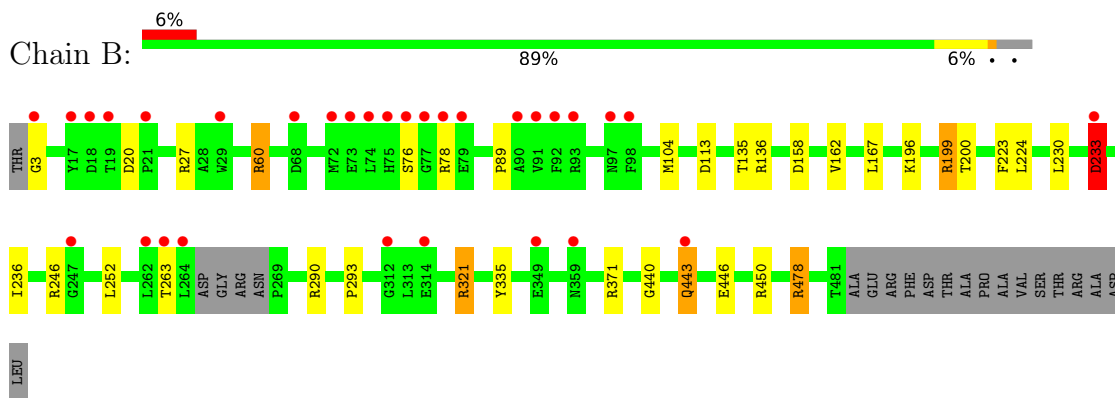
3 Residue-property plots [i](#)

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: Putative glycosyltransferase



- Molecule 1: Putative glycosyltransferase



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	80.67Å 46.69Å 123.88Å 90.00° 108.08° 90.00°	Depositor
Resolution (Å)	40.39 – 1.70 40.39 – 1.70	Depositor EDS
% Data completeness (in resolution range)	97.6 (40.39-1.70) 97.8 (40.39-1.70)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.49 (at 1.70Å)	Xtriage
Refinement program	CNS, REFMAC 5.5.0109	Depositor
R, R_{free}	0.179 , 0.209 0.198 , 0.224	Depositor DCC
R_{free} test set	4761 reflections (4.88%)	wwPDB-VP
Wilson B-factor (Å ²)	13.1	Xtriage
Anisotropy	0.092	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 36.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	0.015 for h,-k,-h-l	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	8233	wwPDB-VP
Average B, all atoms (Å ²)	16.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 15.94% 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: MG, IMD

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	0.55	0/3765	0.81	5/5131 (0.1%)
1	B	0.56	0/3794	0.79	6/5171 (0.1%)
All	All	0.55	0/7559	0.80	11/10302 (0.1%)

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	1

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	199	ARG	CB-CG-CD	6.47	126.17	111.30
1	A	199	ARG	NE-CZ-NH2	-6.04	113.76	119.20
1	B	199	ARG	NE-CZ-NH1	5.99	127.49	121.50
1	B	199	ARG	NE-CZ-NH2	-5.96	113.83	119.20
1	A	199	ARG	NE-CZ-NH1	5.88	127.38	121.50
1	A	157	HIS	N-CA-C	5.58	118.05	109.07
1	A	199	ARG	CD-NE-CZ	5.40	131.95	124.40
1	B	233	ASP	CB-CG-OD1	5.34	130.68	118.40
1	B	199	ARG	CB-CG-CD	5.21	123.28	111.30
1	B	199	ARG	CD-NE-CZ	5.08	131.51	124.40
1	B	321	ARG	CG-CD-NE	-5.04	100.92	112.00

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	101	ALA	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	3679	0	3573	40	0
1	B	3708	0	3600	37	0
2	A	5	0	0	0	0
2	B	3	0	0	0	0
3	A	5	0	5	0	0
3	B	5	0	5	0	0
4	A	377	0	0	6	0
4	B	451	0	0	5	0
All	All	8233	0	7183	76	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 5.

All (76) 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:478:ARG:HH11	1:B:478:ARG:HG3	1.03	1.12
1:A:99:MET:HE2	1:A:160:GLN:HA	1.12	1.07
1:A:100:THR:O	1:A:102:ASN:O	1.76	1.03
1:B:60:ARG:HG2	1:B:60:ARG:HH11	1.18	1.01
1:A:99:MET:CE	1:A:160:GLN:HA	1.91	0.98
1:B:478:ARG:HG3	1:B:478:ARG:NH1	1.80	0.89
1:A:99:MET:HE2	1:A:160:GLN:CA	2.02	0.86
1:B:321:ARG:HG2	4:B:614:HOH:O	1.80	0.82
1:A:321:ARG:HG2	4:A:684:HOH:O	1.82	0.79
1:B:223:PHE:HD2	1:B:252:LEU:HD21	1.48	0.79
1:A:443:GLN:H	1:A:443:GLN:CD	1.91	0.76
1:B:440:GLY:HA3	1:B:443:GLN:HE22	1.51	0.74
1:B:440:GLY:H	1:B:443:GLN:NE2	1.86	0.73
1:B:223:PHE:CD2	1:B:252:LEU:HD21	2.24	0.71
1:A:199:ARG:HG3	1:A:200:THR:N	2.05	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:60:ARG:NH1	1:B:89:PRO:HG3	2.07	0.69
1:B:440:GLY:CA	1:B:443:GLN:HE22	2.06	0.68
1:B:60:ARG:HH11	1:B:60:ARG:CG	1.97	0.67
1:B:440:GLY:N	1:B:443:GLN:NE2	2.42	0.67
1:A:99:MET:HE3	1:A:159:TYR:CD2	2.31	0.65
1:A:443:GLN:OE1	1:A:443:GLN:N	2.24	0.64
1:A:248:HIS:ND1	1:A:478:ARG:NH2	2.47	0.63
1:A:223:PHE:HD2	1:A:252:LEU:HD21	1.65	0.62
1:B:478:ARG:NH1	1:B:478:ARG:CG	2.57	0.62
1:B:224:LEU:HG	1:B:252:LEU:HD22	1.80	0.62
1:B:60:ARG:HG2	1:B:60:ARG:NH1	2.00	0.60
1:B:443:GLN:H	1:B:443:GLN:CD	2.09	0.60
1:A:99:MET:HE3	1:A:159:TYR:CE2	2.37	0.60
1:A:32:PRO:HB2	1:A:363:VAL:HG21	1.85	0.58
1:B:446:GLU:HG3	1:B:450:ARG:NH1	2.19	0.58
1:A:290:ARG:NH1	4:A:731:HOH:O	2.37	0.58
1:B:440:GLY:CA	1:B:443:GLN:NE2	2.67	0.57
1:A:199:ARG:HD3	1:A:230:LEU:HD22	1.87	0.57
1:A:326:ARG:HD2	1:A:328:TYR:OH	2.05	0.56
1:A:99:MET:HE3	1:A:160:GLN:HG3	1.88	0.56
1:A:96:GLN:O	1:A:100:THR:HG23	2.06	0.55
1:B:199:ARG:HG3	1:B:200:THR:N	2.20	0.55
1:B:76:SER:HB3	1:B:263:THR:HG22	1.88	0.55
1:B:199:ARG:HD2	4:B:544:HOH:O	2.06	0.54
1:B:20:ASP:HB2	1:B:27:ARG:HB2	1.89	0.53
1:A:446:GLU:HG3	1:A:450:ARG:NH1	2.24	0.52
1:B:443:GLN:OE1	1:B:443:GLN:N	2.32	0.52
1:A:163:GLY:O	1:A:167:LEU:HD13	2.12	0.49
1:A:196:LYS:HA	1:A:199:ARG:HG2	1.94	0.48
1:B:60:ARG:NH1	1:B:60:ARG:CG	2.66	0.48
1:B:104:MET:HE1	1:B:162:VAL:HG11	1.95	0.48
1:A:199:ARG:HG3	1:A:200:THR:H	1.75	0.48
1:A:443:GLN:CD	1:A:443:GLN:N	2.69	0.47
1:B:3:GLY:N	4:B:705:HOH:O	2.47	0.47
1:A:167:LEU:HD12	1:A:167:LEU:N	2.30	0.47
1:A:224:LEU:HG	1:A:252:LEU:HD22	1.97	0.47
1:B:440:GLY:H	1:B:443:GLN:HE21	1.60	0.47
1:A:113:ASP:HB3	1:B:113:ASP:HB3	1.97	0.46
1:A:99:MET:CE	1:A:160:GLN:HG3	2.46	0.46
1:B:371:ARG:NH2	4:B:834:HOH:O	2.49	0.45
1:B:199:ARG:HD3	1:B:230:LEU:HD22	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:224:LEU:CD2	1:A:252:LEU:HD22	2.47	0.44
1:A:32:PRO:HB2	1:A:363:VAL:CG2	2.47	0.44
1:B:196:LYS:HA	1:B:199:ARG:HG2	1.99	0.44
1:B:60:ARG:HH12	1:B:89:PRO:HG3	1.79	0.44
1:B:136:ARG:HA	1:B:136:ARG:HD3	1.86	0.44
1:A:93:ARG:HG3	4:A:785:HOH:O	2.18	0.43
1:A:101:ALA:HA	1:A:105:TRP:HB3	2.00	0.43
1:A:174:ASP:O	1:A:475:HIS:HE1	2.01	0.43
1:A:223:PHE:CD2	1:A:252:LEU:HD21	2.50	0.43
1:B:290:ARG:NH1	4:B:624:HOH:O	2.48	0.42
1:A:143:LEU:HD13	1:A:171:GLN:HG3	2.01	0.42
1:A:99:MET:CE	1:A:160:GLN:CA	2.79	0.42
1:A:295:LYS:HD3	1:A:295:LYS:HA	1.89	0.42
1:B:135:THR:HG22	1:B:167:LEU:HD22	2.01	0.42
1:A:235:ARG:NH1	4:A:711:HOH:O	2.52	0.41
1:A:103:LEU:HD21	4:A:547:HOH:O	2.21	0.41
1:B:233:ASP:OD2	1:B:246:ARG:NE	2.50	0.41
1:A:272:PRO:HG3	1:A:365:HIS:HB3	2.03	0.40
1:B:293:PRO:HA	1:B:335:TYR:CD1	2.56	0.40
1:A:359:ASN:ND2	4:A:660:HOH:O	2.55	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	466/496 (94%)	455 (98%)	10 (2%)	1 (0%)	43	28
1	B	471/496 (95%)	461 (98%)	9 (2%)	1 (0%)	43	28
All	All	937/992 (94%)	916 (98%)	19 (2%)	2 (0%)	43	28

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	386	ASN
1	B	158	ASP

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	375/394 (95%)	370 (99%)	5 (1%)	61	48
1	B	378/394 (96%)	372 (98%)	6 (2%)	55	41
All	All	753/788 (96%)	742 (98%)	11 (2%)	57	43

All (11) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	60	ARG
1	A	236	ILE
1	A	298	GLU
1	A	326	ARG
1	A	443	GLN
1	B	60	ARG
1	B	78	ARG
1	B	233	ASP
1	B	236	ILE
1	B	443	GLN
1	B	478	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (7) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	75	HIS
1	A	108	ASN
1	A	325	ASN
1	A	337	HIS
1	B	117	GLN
1	B	282	HIS

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Mol	Chain	Res	Type
1	B	443	GLN

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 oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 10 ligands modelled in this entry, 8 are monoatomic - leaving 2 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	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
3	IMD	B	500	-	5,5,5	0.77	0	5,5,5	0.47	0
3	IMD	A	502	-	5,5,5	0.77	0	5,5,5	0.42	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
3	IMD	B	500	-	-	-	0/1/1/1
3	IMD	A	502	-	-	-	0/1/1/1

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

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	470/496 (94%)	0.25	35 (7%) 20 22	5, 16, 33, 42	0
1	B	475/496 (95%)	0.09	31 (6%) 25 27	5, 13, 30, 38	0
All	All	945/992 (95%)	0.17	66 (6%) 22 24	5, 14, 32, 42	0

All (66) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	74	LEU	6.0
1	B	77	GLY	5.9
1	A	103	LEU	5.0
1	A	443	GLN	4.4
1	B	233	ASP	4.1
1	A	102	ASN	3.9
1	A	248	HIS	3.9
1	B	18	ASP	3.9
1	A	101	ALA	3.8
1	A	478	ARG	3.8
1	B	29	TRP	3.8
1	B	75	HIS	3.8
1	A	263	THR	3.8
1	A	442	ARG	3.6
1	B	98	PHE	3.6
1	B	72	MET	3.6
1	B	79	GLU	3.4
1	B	314	GLU	3.4
1	B	90	ALA	3.3
1	A	359	ASN	3.3
1	A	57	GLU	3.3
1	A	440	GLY	3.2
1	A	441	PRO	3.2
1	B	443	GLN	3.1

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Mol	Chain	Res	Type	RSRZ
1	A	47	ASN	3.0
1	A	310	GLY	3.0
1	A	273	GLU	3.0
1	A	100	THR	2.9
1	B	68	ASP	2.9
1	B	76	SER	2.8
1	B	78	ARG	2.8
1	A	33	GLY	2.8
1	A	262	LEU	2.7
1	A	264	LEU	2.7
1	A	247	GLY	2.7
1	A	75	HIS	2.6
1	B	247	GLY	2.6
1	B	21	PRO	2.6
1	B	359	ASN	2.5
1	B	349	GLU	2.4
1	B	264	LEU	2.4
1	A	98	PHE	2.4
1	A	99	MET	2.4
1	A	58	ASP	2.3
1	B	19	THR	2.3
1	A	60	ARG	2.3
1	B	93	ARG	2.3
1	B	92	PHE	2.3
1	A	61	ARG	2.2
1	B	73	GLU	2.2
1	B	312	GLY	2.2
1	A	79	GLU	2.1
1	A	314	GLU	2.1
1	A	270	GLN	2.1
1	A	326	ARG	2.1
1	A	312	GLY	2.1
1	B	3	GLY	2.1
1	B	97	ASN	2.1
1	B	91	VAL	2.1
1	A	74	LEU	2.1
1	B	263	THR	2.1
1	A	67	PRO	2.1
1	B	262	LEU	2.0
1	A	269	PRO	2.0
1	A	311	GLY	2.0
1	B	17	TYR	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	MG	A	1	1/1	0.69	0.18	42,42,42,42	0
3	IMD	B	500	5/5	0.77	0.14	19,19,20,20	0
3	IMD	A	502	5/5	0.87	0.10	20,21,21,22	0
2	MG	A	498	1/1	0.93	0.32	30,30,30,30	0
2	MG	B	1	1/1	0.94	0.09	20,20,20,20	0
2	MG	B	498	1/1	0.95	0.17	30,30,30,30	0
2	MG	A	499	1/1	0.96	0.19	30,30,30,30	0
2	MG	A	501	1/1	0.97	0.09	30,30,30,30	0
2	MG	A	500	1/1	0.98	0.27	30,30,30,30	0
2	MG	B	499	1/1	0.98	0.12	30,30,30,30	0

6.5 Other polymers [i](#)

There are no such residues in this entry.