



Full wwPDB X-ray Structure Validation Report ⓘ

Sep 23, 2025 – 09:08 pm BST

PDB ID : 1OHL / pdb_00001ohl
Title : YEAST 5-AMINOLAEVULINIC ACID DEHYDRATASE PUTATIVE
CYCLIC REACTION INTERMEDIATE COMPLEX
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Deposited on : 2003-05-27
Resolution : 1.60 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	:	1.8.4, CSD as541be (2020)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
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)	:	2.46

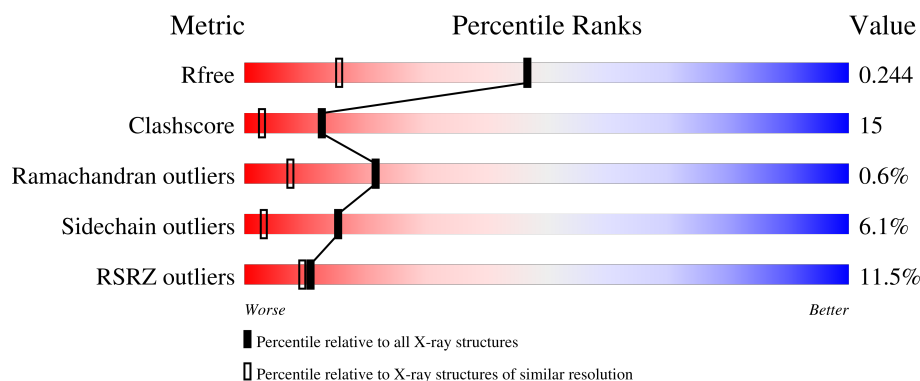
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.60 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	4274 (1.60-1.60)
Clashscore	180529	4682 (1.60-1.60)
Ramachandran outliers	177936	4583 (1.60-1.60)
Sidechain outliers	177891	4582 (1.60-1.60)
RSRZ outliers	164620	4272 (1.60-1.60)

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	342	11% 70% 26% ..

2 Entry composition [i](#)

There are 5 unique types of molecules in this entry. The entry contains 3029 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.

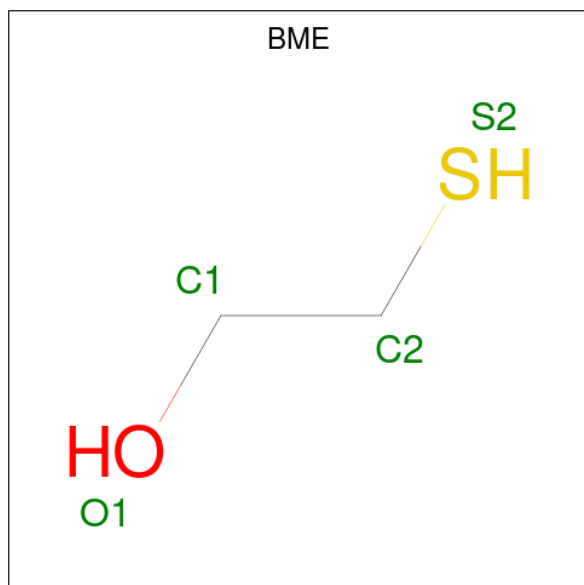
- Molecule 1 is a protein called DELTA-AMINOLEVULINIC ACID DEHYDRATASE.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	340	Total	C	N	O	S	0	5	0
			2666	1692	468	491	15			

- Molecule 2 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	1	Total	Zn	0	0
			1	1		

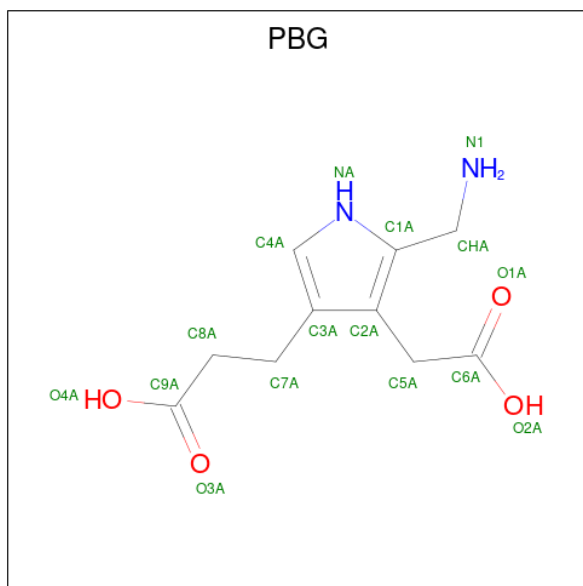
- Molecule 3 is BETA-MERCAPTOETHANOL (CCD ID: BME) (formula: C₂H₆OS).



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

- Molecule 4 is 3-[5-(AMINOMETHYL)-4-(CARBOXYMETHYL)-1H-PYRROL-3-YL]PRO

PANOIC ACID (CCD ID: PBG) (formula: C₁₀H₁₄N₂O₄).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
4	A	1	Total	C	N	O	0	0
			16	10	2	4		

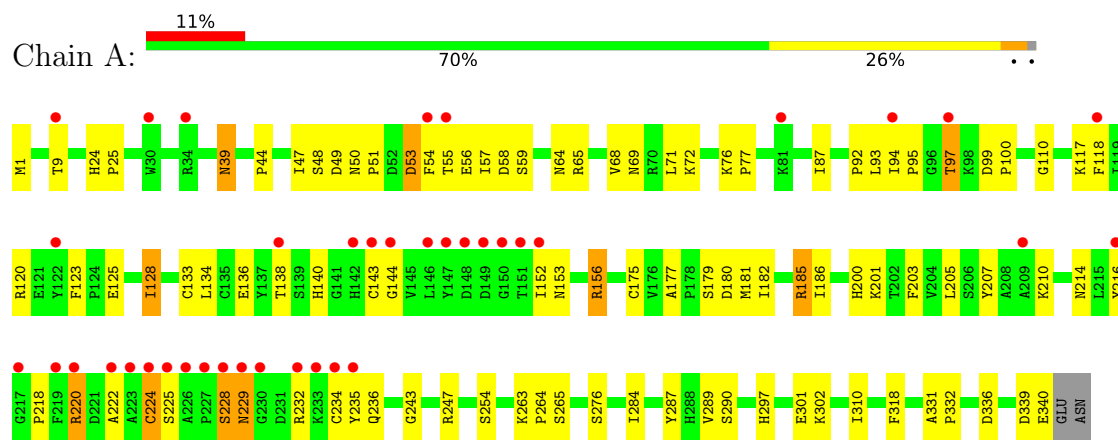
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	342	Total	O	0	0
			342	342		

3 Residue-property plots

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: DELTA-AMINOLEVULINIC ACID DEHYDRATASE



4 Data and refinement statistics

Property	Value	Source
Space group	I 4 2 2	Depositor
Cell constants a, b, c, α , β , γ	103.20Å 103.20Å 167.70Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	44.70 – 1.60 44.70 – 1.60	Depositor EDS
% Data completeness (in resolution range)	96.2 (44.70-1.60) 96.2 (44.70-1.60)	Depositor EDS
R_{merge}	0.06	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.11 (at 1.60Å)	Xtriage
Refinement program	CCP4	Depositor
R, R_{free}	0.188 , 0.241 0.198 , 0.244	Depositor DCC
R_{free} test set	2920 reflections (5.07%)	wwPDB-VP
Wilson B-factor (Å ²)	27.4	Xtriage
Anisotropy	0.303	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 88.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	3029	wwPDB-VP
Average B, all atoms (Å ²)	40.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.34% 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: BME, ZN, PBG

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	0.47	0/2755	0.99	5/3734 (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	5

There are no bond length outliers.

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	128	ILE	N-CA-C	5.52	116.05	107.99
1	A	123	PHE	CA-C-N	5.36	126.53	119.84
1	A	123	PHE	C-N-CA	5.36	126.53	119.84
1	A	110	GLY	CA-C-N	5.33	124.96	119.05
1	A	110	GLY	C-N-CA	5.33	124.96	119.05

There are no chirality outliers.

All (5) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	156[A]	ARG	Sidechain
1	A	156[B]	ARG	Sidechain
1	A	156[C]	ARG	Sidechain
1	A	185[A]	ARG	Sidechain
1	A	185[B]	ARG	Sidechain

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	2666	0	2649	80	0
2	A	1	0	0	0	0
3	A	4	0	5	3	0
4	A	16	0	11	4	0
5	A	342	0	0	5	0
All	All	3029	0	2665	80	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 15.

All (80) 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:A:263:LYS:HE2	4:A:1263:PBG:H8A1	1.51	0.92
1:A:218:PRO:HB2	1:A:290:SER:HB2	1.58	0.84
1:A:228:SER:O	1:A:229:ASN:HB2	1.78	0.82
1:A:99:ASP:HB2	1:A:100:PRO:CD	2.12	0.77
1:A:263:LYS:CE	4:A:1263:PBG:H8A1	2.13	0.76
1:A:185[B]:ARG:HE	1:A:186:ILE:HG12	1.52	0.73
1:A:214:ASN:HA	5:A:2247:HOH:O	1.88	0.72
1:A:297:HIS:O	1:A:301:GLU:HG3	1.92	0.69
1:A:263:LYS:HE2	4:A:1263:PBG:C8A	2.22	0.69
1:A:99:ASP:HB2	1:A:100:PRO:HD2	1.75	0.68
1:A:179:SER:HB3	1:A:207:TYR:CE1	2.28	0.68
1:A:263:LYS:CE	4:A:1263:PBG:C8A	2.72	0.68
1:A:57:ILE:HD13	1:A:222:ALA:CB	2.26	0.65
1:A:39:ASN:HD22	1:A:39:ASN:C	2.03	0.64
1:A:185[B]:ARG:NE	1:A:186:ILE:HG12	2.13	0.63
1:A:140:HIS:O	1:A:228:SER:HB2	2.00	0.60
1:A:182:ILE:O	1:A:185[B]:ARG:HD3	2.01	0.60
1:A:118:PHE:C	1:A:118:PHE:CD2	2.80	0.60
1:A:136:GLU:HG2	1:A:225:SER:HB3	1.84	0.59
1:A:57:ILE:HD13	1:A:222:ALA:HB1	1.87	0.57
1:A:220:ARG:O	3:A:1224:BME:H12	2.05	0.57
1:A:228:SER:O	1:A:229:ASN:CB	2.51	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:134:LEU:HD12	1:A:144:GLY:HA2	1.88	0.55
1:A:56:GLU:HG2	1:A:64:ASN:HD21	1.72	0.55
1:A:56:GLU:HG2	1:A:64:ASN:ND2	2.23	0.54
1:A:57:ILE:HG12	1:A:222:ALA:HA	1.90	0.54
1:A:185[B]:ARG:NE	1:A:186:ILE:H	2.07	0.53
1:A:57:ILE:HD13	1:A:222:ALA:HB2	1.90	0.53
1:A:302:LYS:O	1:A:302:LYS:HG3	2.09	0.53
1:A:210:LYS:HE2	1:A:236:GLN:HE21	1.73	0.52
1:A:177:ALA:HA	1:A:205:LEU:O	2.09	0.52
1:A:51:PRO:HB2	1:A:69:ASN:ND2	2.24	0.51
1:A:47:ILE:HD12	1:A:71:LEU:HD11	1.93	0.51
1:A:57:ILE:HG21	1:A:222:ALA:HB2	1.93	0.51
1:A:92:PRO:HB2	1:A:97:THR:HG21	1.92	0.51
1:A:180:ASP:O	1:A:181:MET:HB2	2.09	0.50
1:A:276:SER:HA	1:A:284:ILE:CD1	2.40	0.50
1:A:175:CYS:HB2	1:A:203:PHE:HB3	1.94	0.50
1:A:99:ASP:CB	1:A:100:PRO:CD	2.80	0.49
1:A:50:ASN:O	1:A:53:ASP:HB2	2.13	0.49
1:A:232:ARG:HH11	1:A:232:ARG:HG2	1.78	0.49
1:A:99:ASP:O	1:A:138:THR:HA	2.12	0.48
1:A:265:SER:HB2	1:A:318:PHE:CE2	2.47	0.48
1:A:185[B]:ARG:HE	1:A:186:ILE:N	2.12	0.48
1:A:59:SER:OG	1:A:218:PRO:HA	2.13	0.48
1:A:234:CYS:HB2	5:A:2257:HOH:O	2.13	0.48
1:A:200:HIS:CD2	1:A:200:HIS:H	2.31	0.48
1:A:224:CYS:HA	3:A:1224:BME:H12	1.95	0.48
1:A:49:ASP:CG	1:A:93:LEU:H	2.22	0.47
1:A:185[B]:ARG:HE	1:A:186:ILE:H	1.62	0.47
1:A:216:TYR:OH	1:A:264:PRO:HD3	2.15	0.47
1:A:179:SER:HB3	1:A:207:TYR:CD1	2.49	0.47
1:A:99:ASP:HB2	1:A:100:PRO:HD3	1.95	0.46
1:A:182:ILE:O	1:A:185[A]:ARG:HD2	2.16	0.46
1:A:55:THR:O	1:A:64:ASN:HB3	2.15	0.46
1:A:72:LYS:HB2	1:A:118:PHE:HZ	1.80	0.46
1:A:24:HIS:CG	1:A:25:PRO:HD2	2.50	0.46
1:A:336:ASP:O	1:A:339:ASP:HB2	2.15	0.46
1:A:331:ALA:N	1:A:332:PRO:CD	2.79	0.46
1:A:44:PRO:HA	1:A:87:ILE:HG23	1.98	0.46
1:A:216:TYR:HE1	1:A:289:VAL:HG11	1.82	0.44
1:A:65:ARG:HD2	5:A:2113:HOH:O	2.18	0.43
1:A:153:ASN:OD1	1:A:153:ASN:C	2.61	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:287:TYR:C	1:A:287:TYR:CD2	2.96	0.43
1:A:331:ALA:HB3	1:A:332:PRO:HD3	2.00	0.42
1:A:287:TYR:C	1:A:287:TYR:HD2	2.27	0.42
1:A:120:ARG:CD	1:A:128:ILE:HD12	2.50	0.41
1:A:185[B]:ARG:CZ	1:A:186:ILE:HG12	2.50	0.41
1:A:39:ASN:C	1:A:39:ASN:ND2	2.74	0.41
1:A:76:LYS:N	1:A:77:PRO:HD2	2.35	0.41
1:A:94:ILE:HA	1:A:95:PRO:HD3	1.81	0.41
1:A:185[B]:ARG:NE	1:A:186:ILE:N	2.68	0.41
1:A:310:ILE:HD12	1:A:310:ILE:HA	1.89	0.41
1:A:68:VAL:HG21	5:A:2175:HOH:O	2.21	0.41
1:A:243:GLY:O	1:A:247:ARG:HG3	2.21	0.41
1:A:133:CYS:SG	1:A:143:CYS:HB3	2.60	0.40
1:A:117:LYS:NZ	5:A:2177:HOH:O	2.55	0.40
1:A:224:CYS:HB3	3:A:1224:BME:H22	1.51	0.40
1:A:59:SER:O	1:A:218:PRO:HB3	2.22	0.40
1:A:71:LEU:HD23	1:A:71:LEU:HA	1.86	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	344/342 (101%)	327 (95%)	15 (4%)	2 (1%)	22	7

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	54	PHE
1	A	229	ASN

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	286/282 (101%)	267 (93%)	19 (7%)	14 3

All (19) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1	MET
1	A	9	THR
1	A	39	ASN
1	A	48	SER
1	A	53	ASP
1	A	58	ASP
1	A	97	THR
1	A	125	GLU
1	A	152	ILE
1	A	156[A]	ARG
1	A	156[B]	ARG
1	A	156[C]	ARG
1	A	201	LYS
1	A	220	ARG
1	A	224	CYS
1	A	228	SER
1	A	235	TYR
1	A	254	SER
1	A	340	GLU

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	35	GLN
1	A	39	ASN
1	A	64	ASN
1	A	69	ASN
1	A	200	HIS
1	A	214	ASN

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Mol	Chain	Res	Type
1	A	236	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 3 ligands modelled in this entry, 1 is 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$
4	PBG	A	1263	2	15,16,16	2.88	5 (33%)	15,21,21	2.70	4 (26%)
3	BME	A	1224	1	3,3,3	0.30	0	1,2,2	0.24	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	PBG	A	1263	2	-	4/9/11/11	0/1/1/1
3	BME	A	1224	1	-	0/1/1/1	-

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	1263	PBG	C3A-C2A	6.85	1.52	1.40
4	A	1263	PBG	C4A-C3A	5.30	1.51	1.37
4	A	1263	PBG	CHA-C1A	-4.98	1.46	1.51
4	A	1263	PBG	C5A-C2A	-2.73	1.46	1.51
4	A	1263	PBG	C2A-C1A	2.44	1.42	1.39

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	A	1263	PBG	C7A-C3A-C4A	-7.46	111.47	127.19
4	A	1263	PBG	C7A-C3A-C2A	-5.15	108.69	124.90
4	A	1263	PBG	C5A-C2A-C1A	-3.19	123.60	126.41
4	A	1263	PBG	CHA-C1A-C2A	-2.23	125.73	130.00

There are no chirality outliers.

All (4) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	A	1263	PBG	C2A-C3A-C7A-C8A
4	A	1263	PBG	C3A-C7A-C8A-C9A
4	A	1263	PBG	C7A-C8A-C9A-O4A
4	A	1263	PBG	C7A-C8A-C9A-O3A

There are no ring outliers.

2 monomers are involved in 7 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	A	1263	PBG	4	0
3	A	1224	BME	3	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	340/342 (99%)	0.66	39 (11%) 11 9	13, 31, 75, 166	5 (1%)

All (39) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	226	ALA	6.0
1	A	225	SER	5.9
1	A	222	ALA	3.8
1	A	223	ALA	3.6
1	A	234	CYS	3.6
1	A	233	LYS	3.3
1	A	151	THR	3.3
1	A	228	SER	3.2
1	A	224	CYS	3.2
1	A	230	GLY	3.2
1	A	152	ILE	3.1
1	A	147	TYR	3.0
1	A	9	THR	2.9
1	A	146	LEU	2.9
1	A	216	TYR	2.8
1	A	220	ARG	2.8
1	A	149	ASP	2.7
1	A	54	PHE	2.7
1	A	97	THR	2.6
1	A	55	THR	2.6
1	A	148	ASP	2.5
1	A	209	ALA	2.5
1	A	219	PHE	2.5
1	A	232	ARG	2.5
1	A	144	GLY	2.4
1	A	227	PRO	2.4
1	A	143	CYS	2.3

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Mol	Chain	Res	Type	RSRZ
1	A	34	ARG	2.3
1	A	118	PHE	2.2
1	A	217	GLY	2.2
1	A	122	TYR	2.2
1	A	30	TRP	2.1
1	A	81	LYS	2.1
1	A	235	TYR	2.1
1	A	138	THR	2.0
1	A	94	ILE	2.0
1	A	150	GLY	2.0
1	A	229	ASN	2.0
1	A	142	HIS	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(Å ²)	Q<0.9
3	BME	A	1224	4/4	0.66	0.17	68,80,102,152	0
4	PBG	A	1263	16/16	0.85	0.16	24,34,54,60	16
2	ZN	A	400	1/1	0.98	0.08	42,42,42,42	0

6.5 Other polymers [i](#)

There are no such residues in this entry.