



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 28, 2026 – 07:17 PM UTC

PDB ID : 6OH8 / pdb_00006oh8
Title : Crystal structure of (E)-biformene synthase LrdC from Streptomyces sp. strain K155 in the dimeric form
Authors : Centeno-Leija, S.; Serrano-Posada, H.
Deposited on : 2019-04-04
Resolution : 2.17 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

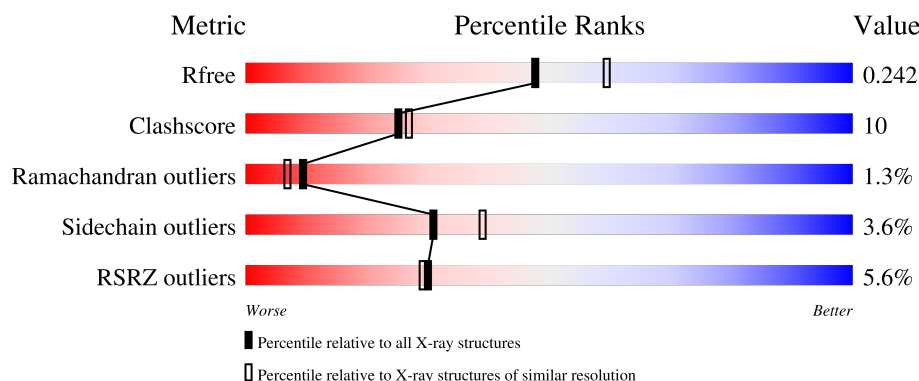
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.17 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	8975 (2.20-2.16)
Clashscore	190562	9786 (2.20-2.16)
Ramachandran outliers	187476	9664 (2.20-2.16)
Sidechain outliers	187428	9664 (2.20-2.16)
RSRZ outliers	180081	8979 (2.20-2.16)

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	4% 74% 15% 11%
1	B	342	6% 72% 15% 11%

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
2	PEG	A	401	-	-	X	-
2	PEG	B	402	-	-	X	-

2 Entry composition [i](#)

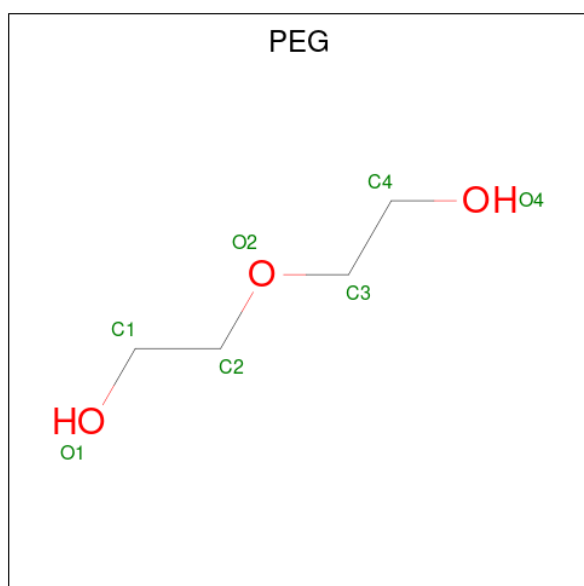
There are 4 unique types of molecules in this entry. The entry contains 5017 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 Labdane-related diterpene synthase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	306	Total	C	N	O	S	0	1	0
			2351	1488	430	425	8			
1	B	305	Total	C	N	O	S	0	0	0
			2335	1479	425	423	8			

- Molecule 2 is DI(HYDROXYETHYL)ETHER (CCD ID: PEG) (formula: C₄H₁₀O₃).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	1	Total	C	O	0	0
			7	4	3		
2	A	1	Total	C	O	0	0
			7	4	3		
2	A	1	Total	C	O	0	0
			7	4	3		
2	A	1	Total	C	O	0	0
			7	4	3		

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

- Molecule 3 is GLYCEROL (CCD ID: GOL) (formula: $C_3H_8O_3$).



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

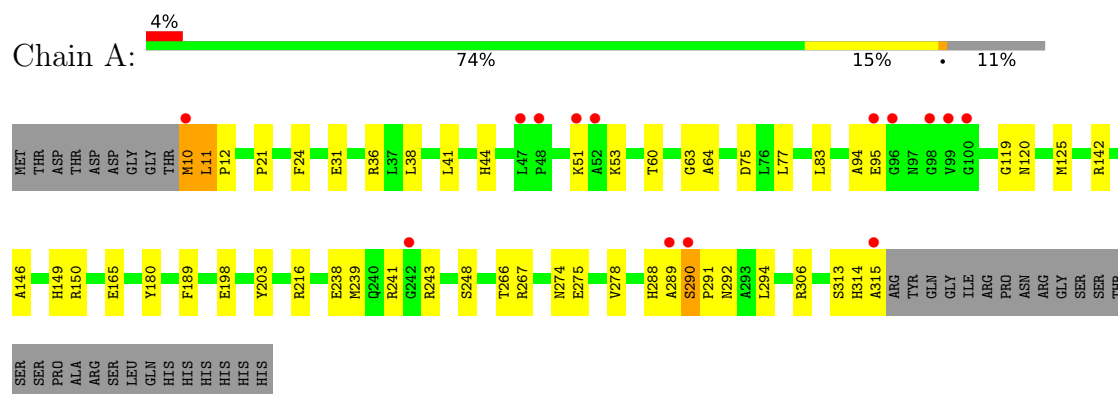
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	176	Total	O	0	0
			176	176		
4	B	114	Total	O	0	0
			114	114		

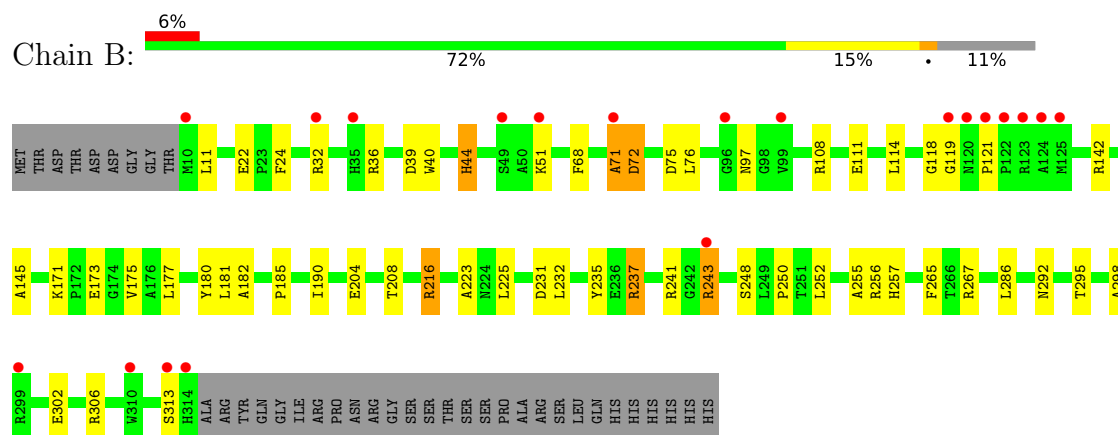
3 Residue-property plots [i](#)

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: Labdane-related diterpene synthase



• Molecule 1: Labdane-related diterpene synthase



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	49.96Å 104.16Å 66.53Å 90.00° 111.25° 90.00°	Depositor
Resolution (Å)	52.08 – 2.17 52.08 – 2.17	Depositor EDS
% Data completeness (in resolution range)	97.5 (52.08-2.17) 97.5 (52.08-2.17)	Depositor EDS
R_{merge}	0.15	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.37 (at 2.18Å)	Xtriage
Refinement program	PHENIX 1.14_3260	Depositor
R, R_{free}	0.195 , 0.238 0.198 , 0.242	Depositor DCC
R_{free} test set	1568 reflections (4.67%)	wwPDB-VP
Wilson B-factor (Å ²)	31.3	Xtriage
Anisotropy	0.606	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 41.2	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	0.033 for h,-k,-h-l	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	5017	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 4.78% 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: PEG, GOL

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	0.38	0/2411	0.60	0/3291
1	B	0.38	0/2395	0.56	0/3270
All	All	0.38	0/4806	0.58	0/6561

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

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	2351	0	2330	44	0
1	B	2335	0	2313	49	0
2	A	28	0	40	12	0
2	B	7	0	10	13	0
3	B	6	0	8	0	0
4	A	176	0	0	11	0
4	B	114	0	0	8	0
All	All	5017	0	4701	91	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 10.

All (91) 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:256:ARG:HB2	2:B:402:PEG:H32	1.52	0.92
1:A:241:ARG:HH21	1:A:243:ARG:HG3	1.47	0.80
1:B:256:ARG:CB	2:B:402:PEG:H32	2.11	0.80
1:A:291:PRO:HD2	1:A:294:LEU:HD12	1.69	0.74
1:B:255:ALA:HB3	2:B:402:PEG:H21	1.72	0.71
1:B:97:ASN:HB2	1:B:243:ARG:HE	1.57	0.69
1:B:40:TRP:CD1	1:B:44:HIS:HE2	2.13	0.66
1:B:97:ASN:HD22	1:B:243:ARG:HG3	1.59	0.66
1:B:175:VAL:O	2:B:402:PEG:H11	1.95	0.66
1:A:38:LEU:O	4:A:501:HOH:O	2.14	0.65
1:B:39:ASP:OD1	4:B:501:HOH:O	2.14	0.65
1:A:149:HIS:CG	4:A:554:HOH:O	2.51	0.63
1:B:24:PHE:CD1	1:B:306:ARG:HD2	2.35	0.62
1:A:313:SER:O	1:A:315:ALA:N	2.32	0.62
1:B:39:ASP:HA	4:B:501:HOH:O	1.98	0.62
1:A:24:PHE:CD1	1:A:306:ARG:HD2	2.35	0.61
1:A:275:GLU:OE2	2:A:402:PEG:H22	2.02	0.59
1:B:71:ALA:O	1:B:72:ASP:HB2	2.03	0.59
1:A:24:PHE:HD1	1:A:306:ARG:HD2	1.66	0.59
1:A:241:ARG:NH2	1:A:243:ARG:HG3	2.17	0.58
1:B:22:GLU:O	4:B:502:HOH:O	2.17	0.58
1:B:36:ARG:NH1	4:B:510:HOH:O	2.35	0.58
1:B:173:GLU:O	2:B:402:PEG:O1	2.17	0.58
1:A:216:ARG:HE	1:B:119:GLY:HA2	1.69	0.58
1:B:114:LEU:HB3	1:B:121:PRO:HB3	1.85	0.57
1:A:149:HIS:HD2	4:A:608:HOH:O	1.88	0.56
1:B:256:ARG:HB3	1:B:257:HIS:CD2	2.41	0.56
1:A:95:GLU:HG3	1:A:165:GLU:OE2	2.07	0.55
1:A:75:ASP:OD1	1:A:142[B]:ARG:NE	2.40	0.54
1:A:189:PHE:HA	4:A:536:HOH:O	2.09	0.52
1:A:21:PRO:HG3	2:A:403:PEG:H11	1.91	0.51
1:A:292:ASN:HB3	4:A:647:HOH:O	2.10	0.51
1:B:286:LEU:HB3	1:B:298:ALA:HB2	1.91	0.51
1:A:306:ARG:HD3	4:A:573:HOH:O	2.12	0.50
1:B:237:ARG:O	1:B:241:ARG:HG2	2.11	0.49
2:A:402:PEG:H42	2:A:402:PEG:H11	1.93	0.49
1:A:216:ARG:NE	1:B:119:GLY:HA2	2.26	0.49
1:A:119:GLY:H	1:B:216:ARG:NH2	2.10	0.49
1:B:145:ALA:C	4:B:545:HOH:O	2.56	0.49
1:B:252:LEU:HA	2:B:402:PEG:H22	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:83:LEU:CD2	2:A:401:PEG:H22	2.43	0.48
1:B:173:GLU:HA	2:B:402:PEG:O1	2.13	0.48
1:B:173:GLU:H	1:B:173:GLU:CD	2.22	0.48
1:B:256:ARG:N	2:B:402:PEG:H31	2.29	0.48
1:B:256:ARG:HB2	2:B:402:PEG:C3	2.36	0.47
1:B:118:GLY:O	4:B:503:HOH:O	2.20	0.47
1:B:72:ASP:HB3	1:B:75:ASP:HB2	1.96	0.47
1:A:149:HIS:CE1	4:B:508:HOH:O	2.67	0.46
1:B:292:ASN:HA	1:B:295:THR:HG22	1.98	0.46
1:A:288:HIS:O	1:A:290:SER:OG	2.18	0.46
1:B:248:SER:OG	1:B:250:PRO:HD2	2.16	0.46
1:A:63:GLY:HA3	2:A:401:PEG:H11	1.98	0.46
1:A:95:GLU:HG3	1:A:165:GLU:CD	2.40	0.45
2:A:404:PEG:H21	1:B:182:ALA:HB1	1.99	0.45
1:B:108:ARG:HH21	1:B:111:GLU:CD	2.24	0.45
1:A:180:TYR:OH	1:A:248:SER:HA	2.16	0.45
1:A:94:ALA:HB1	4:A:512:HOH:O	2.16	0.45
1:B:235:TYR:HB3	1:B:265:PHE:HZ	1.80	0.45
1:A:238:GLU:HA	1:A:241:ARG:HG2	1.99	0.45
1:B:175:VAL:O	2:B:402:PEG:C1	2.65	0.44
1:A:83:LEU:HD22	2:A:401:PEG:H22	1.98	0.44
1:A:21:PRO:HB2	2:A:403:PEG:H42	1.99	0.44
1:B:68:PHE:O	1:B:71:ALA:HB2	2.18	0.43
1:A:36:ARG:HD3	1:A:77:LEU:HD22	2.01	0.43
1:B:302:GLU:O	1:B:306:ARG:HG3	2.19	0.43
1:A:146:ALA:HB1	1:A:150:ARG:NH1	2.34	0.42
1:A:125:MET:HG2	4:A:655:HOH:O	2.18	0.42
1:B:256:ARG:CA	2:B:402:PEG:C3	2.97	0.42
1:B:295:THR:HG23	4:B:597:HOH:O	2.19	0.42
1:A:315:ALA:HB2	4:A:503:HOH:O	2.17	0.42
1:B:185:PRO:O	1:B:190:ILE:HG22	2.20	0.42
1:B:256:ARG:CA	2:B:402:PEG:H32	2.49	0.42
1:A:64:ALA:HA	2:A:401:PEG:H21	2.02	0.42
1:B:180:TYR:OH	1:B:231:ASP:OD2	2.34	0.41
1:A:60:THR:O	2:A:401:PEG:H12	2.19	0.41
1:A:10:MET:O	1:A:11:LEU:HB2	2.21	0.41
1:B:185:PRO:HB3	1:B:223:ALA:HB1	2.02	0.41
1:A:274:ASN:O	1:A:278:VAL:HG23	2.21	0.41
1:A:119:GLY:HA3	2:A:404:PEG:H41	2.03	0.41
2:A:402:PEG:C1	4:A:661:HOH:O	2.70	0.40
1:A:12:PRO:HG2	1:A:266:THR:OG1	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:173:GLU:C	2:B:402:PEG:O1	2.63	0.40
1:B:225:LEU:HD12	1:B:225:LEU:HA	1.85	0.40
1:A:198:GLU:HG2	1:A:203:TYR:CZ	2.57	0.40
1:A:306:ARG:HD3	1:A:306:ARG:HH11	1.77	0.40
1:A:41:LEU:HD13	1:A:53:LYS:HG3	2.04	0.40
1:A:119:GLY:N	1:B:216:ARG:NH2	2.70	0.40
1:A:120:ASN:ND2	4:A:524:HOH:O	2.47	0.40
1:B:142:ARG:HA	1:B:142:ARG:HD2	1.95	0.40
1:B:232:LEU:HD23	1:B:250:PRO:HG3	2.04	0.40
1:B:177:LEU:O	1:B:181:LEU:HG	2.22	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	305/342 (89%)	298 (98%)	3 (1%)	4 (1%)	9	7
1	B	303/342 (89%)	290 (96%)	9 (3%)	4 (1%)	9	7
All	All	608/684 (89%)	588 (97%)	12 (2%)	8 (1%)	9	7

All (8) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	314	HIS
1	B	72	ASP
1	B	71	ALA
1	B	313	SER
1	A	289	ALA
1	A	11	LEU
1	B	11	LEU
1	A	290	SER

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	237/267 (89%)	231 (98%)	6 (2%)	42	53
1	B	236/267 (88%)	225 (95%)	11 (5%)	23	28
All	All	473/534 (89%)	456 (96%)	17 (4%)	31	39

All (17) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	10	MET
1	A	31	GLU
1	A	44	HIS
1	A	51	LYS
1	A	239	MET
1	A	267	ARG
1	B	32	ARG
1	B	44	HIS
1	B	51	LYS
1	B	76	LEU
1	B	171	LYS
1	B	204	GLU
1	B	208	THR
1	B	216	ARG
1	B	237	ARG
1	B	243	ARG
1	B	267	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (4) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	29	HIS
1	A	133	HIS
1	B	29	HIS
1	B	288	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 ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

6 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	PEG	B	402	-	6,6,6	0.31	0	5,5,5	0.44	0
2	PEG	A	402	-	6,6,6	0.37	0	5,5,5	0.26	0
2	PEG	A	404	-	6,6,6	0.49	0	5,5,5	0.32	0
3	GOL	B	401	-	5,5,5	0.68	0	5,5,5	1.32	1 (20%)
2	PEG	A	401	-	6,6,6	0.55	0	5,5,5	0.47	0
2	PEG	A	403	-	6,6,6	0.39	0	5,5,5	0.37	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	PEG	B	402	-	-	3/4/4/4	-
2	PEG	A	402	-	-	2/4/4/4	-
2	PEG	A	404	-	-	4/4/4/4	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	GOL	B	401	-	-	2/4/4/4	-
2	PEG	A	401	-	-	3/4/4/4	-
2	PEG	A	403	-	-	4/4/4/4	-

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	B	401	GOL	C3-C2-C1	-2.10	104.08	111.80

There are no chirality outliers.

All (18) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	B	401	GOL	C1-C2-C3-O3
2	A	403	PEG	O2-C3-C4-O4
2	A	404	PEG	O1-C1-C2-O2
2	A	404	PEG	O2-C3-C4-O4
2	A	403	PEG	O1-C1-C2-O2
2	A	401	PEG	O2-C3-C4-O4
2	B	402	PEG	O1-C1-C2-O2
3	B	401	GOL	O2-C2-C3-O3
2	B	402	PEG	O2-C3-C4-O4
2	A	404	PEG	C4-C3-O2-C2
2	A	401	PEG	C4-C3-O2-C2
2	B	402	PEG	C1-C2-O2-C3
2	A	404	PEG	C1-C2-O2-C3
2	A	402	PEG	C4-C3-O2-C2
2	A	403	PEG	C1-C2-O2-C3
2	A	401	PEG	C1-C2-O2-C3
2	A	402	PEG	C1-C2-O2-C3
2	A	403	PEG	C4-C3-O2-C2

There are no ring outliers.

5 monomers are involved in 25 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	402	PEG	13	0
2	A	402	PEG	3	0
2	A	404	PEG	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	401	PEG	5	0
2	A	403	PEG	2	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	306/342 (89%)	0.26	14 (4%) 37 36	18, 33, 65, 80	1 (0%)
1	B	305/342 (89%)	0.60	20 (6%) 24 23	20, 42, 68, 84	0
All	All	611/684 (89%)	0.43	34 (5%) 30 29	18, 38, 67, 84	1 (0%)

All (34) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	289	ALA	5.3
1	A	99	VAL	5.2
1	A	96	GLY	3.4
1	B	125	MET	3.2
1	A	98	GLY	3.1
1	A	48	PRO	3.1
1	A	242	GLY	3.1
1	B	10	MET	3.0
1	B	314	HIS	3.0
1	A	315	ALA	3.0
1	B	119	GLY	3.0
1	A	95	GLU	2.9
1	B	35	HIS	2.9
1	B	313	SER	2.7
1	B	122	PRO	2.7
1	B	96	GLY	2.6
1	B	32	ARG	2.4
1	A	100	GLY	2.4
1	A	52	ALA	2.3
1	B	124	ALA	2.3
1	B	299	ARG	2.2
1	B	123	ARG	2.1
1	A	290	SER	2.1
1	B	51	LYS	2.1

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Mol	Chain	Res	Type	RSRZ
1	B	120	ASN	2.1
1	B	121	PRO	2.1
1	A	51	LYS	2.1
1	A	10	MET	2.0
1	A	47	LEU	2.0
1	B	99	VAL	2.0
1	B	49	SER	2.0
1	B	71	ALA	2.0
1	B	310	TRP	2.0
1	B	243	ARG	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
2	PEG	A	402	7/7	0.75	0.18	28,33,39,42	7
3	GOL	B	401	6/6	0.75	0.14	38,43,46,50	0
2	PEG	A	403	7/7	0.84	0.24	36,37,39,45	0
2	PEG	A	401	7/7	0.85	0.15	27,32,39,40	0
2	PEG	B	402	7/7	0.90	0.20	25,33,38,38	7
2	PEG	A	404	7/7	0.90	0.15	23,34,36,50	0

6.5 Other polymers [i](#)

There are no such residues in this entry.