



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 6, 2026 – 04:58 AM UTC

PDB ID : 3DKI / pdb_00003dki
Title : 2.1 Å X-ray structure of CysM (Rv1336) from Mycobacterium tuberculosis an
O-phosphoserine dependent cysteine synthase
Authors : Agren, D.; Schnell, R.; Schneider, G.
Deposited on : 2008-06-25
Resolution : 2.10 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

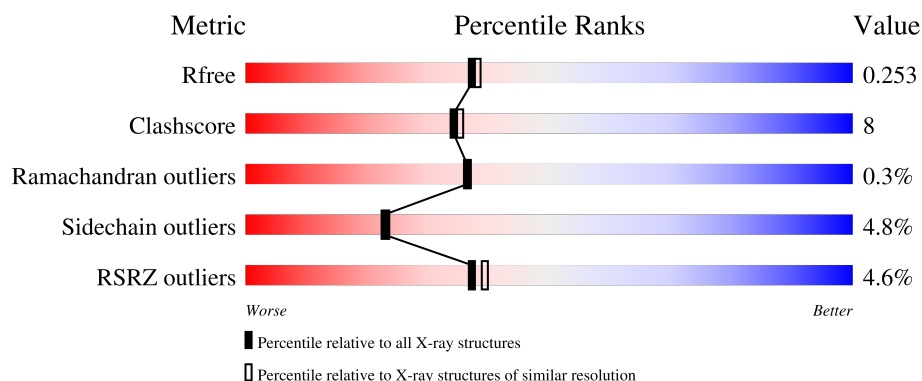
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.10 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	6658 (2.10-2.10)
Clashscore	190562	7164 (2.10-2.10)
Ramachandran outliers	187476	7099 (2.10-2.10)
Sidechain outliers	187428	7100 (2.10-2.10)
RSRZ outliers	180081	6662 (2.10-2.10)

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	326	3% 77% 16% • 5%
1	B	326	5% 79% 9% • 10%

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 4787 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 Cysteine synthase B.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	311	Total	C	N	O	P	S	0	0	0
			2345	1469	416	451	1	8			
1	B	295	Total	C	N	O	P	S	0	0	0
			2222	1394	394	425	1	8			

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-2	GLY	-	expression tag	UNP P63873
A	-1	SER	-	expression tag	UNP P63873
A	0	HIS	-	expression tag	UNP P63873
A	2	ALA	THR	engineered mutation	UNP P63873
B	-2	GLY	-	expression tag	UNP P63873
B	-1	SER	-	expression tag	UNP P63873
B	0	HIS	-	expression tag	UNP P63873
B	2	ALA	THR	engineered mutation	UNP P63873

- Molecule 2 is SODIUM ION (CCD ID: NA) (formula: Na).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	B	1	Total	Na	0	0
			1	1		

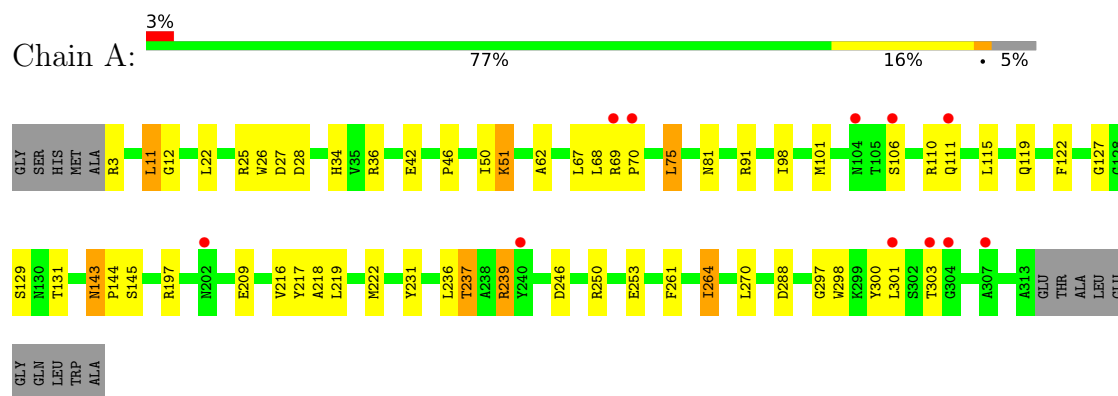
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	128	Total	O	0	0
			128	128		
3	B	91	Total	O	0	0
			91	91		

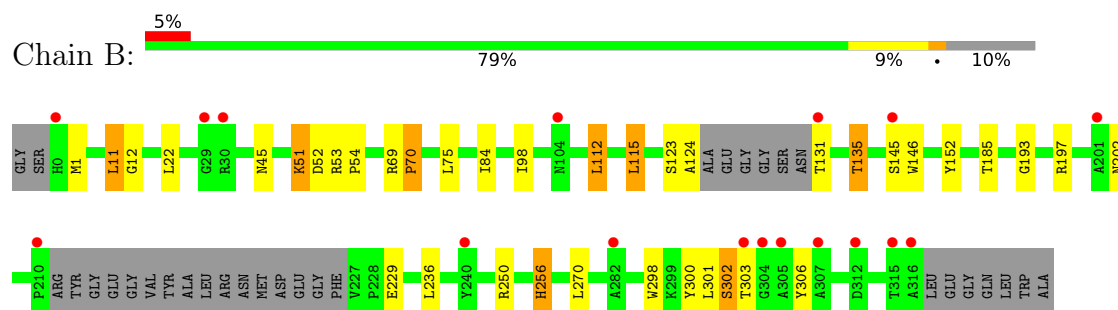
3 Residue-property plots

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: Cysteine synthase B



• Molecule 1: Cysteine synthase B



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	74.42Å 89.22Å 98.77Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	28.58 – 2.10 28.58 – 2.10	Depositor EDS
% Data completeness (in resolution range)	98.3 (28.58-2.10) 98.2 (28.58-2.10)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	0.09	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.22 (at 2.10Å)	Xtriage
Refinement program	REFMAC 5.2.0019	Depositor
R, R_{free}	0.191 , 0.241 0.208 , 0.253	Depositor DCC
R_{free} test set	1898 reflections (4.86%)	wwPDB-VP
Wilson B-factor (Å ²)	32.1	Xtriage
Anisotropy	0.016	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.37 , 43.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	4787	wwPDB-VP
Average B, all atoms (Å ²)	28.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.82% 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: NA, LLP

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	0.81	0/2365	0.93	1/3218 (0.0%)
1	B	0.72	0/2238	0.86	0/3046
All	All	0.77	0/4603	0.90	1/6264 (0.0%)

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	143	ASN	N-CA-C	14.02	120.83	108.22

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	A	2345	0	2312	40	1
1	B	2222	0	2206	35	0
2	B	1	0	0	0	0
3	A	128	0	0	1	2
3	B	91	0	0	3	0
All	All	4787	0	4518	69	2

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 8.

All (69) 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:131:THR:O	1:B:135:THR:HG22	1.53	1.08
1:B:112:LEU:O	1:B:115:LEU:HD23	1.70	0.91
1:A:91:ARG:HD3	1:B:256:HIS:O	1.75	0.86
1:B:112:LEU:HD23	1:B:115:LEU:CD2	2.08	0.83
1:A:300:TYR:O	1:A:303:THR:HG22	1.76	0.83
1:A:143:ASN:HB2	1:A:144:PRO:HD2	1.60	0.81
1:B:112:LEU:HD23	1:B:115:LEU:HD21	1.65	0.79
1:A:119:GLN:HB2	3:A:424:HOH:O	1.81	0.78
1:A:3:ARG:HG3	3:B:338:HOH:O	1.85	0.75
1:B:123:SER:HB3	1:B:135:THR:HG21	1.70	0.72
1:B:302:SER:O	1:B:303:THR:HG23	1.90	0.70
1:B:75:LEU:HD13	1:B:98:ILE:HB	1.72	0.70
1:A:261:PHE:CE1	1:B:115:LEU:HD11	2.27	0.69
1:A:197:ARG:NH2	1:A:237:THR:HG23	2.10	0.67
1:B:300:TYR:O	1:B:303:THR:OG1	2.13	0.66
1:A:69:ARG:HB3	1:A:70:PRO:CD	2.26	0.65
1:B:152:TYR:CD1	1:B:185:THR:HG22	2.32	0.64
1:B:11:LEU:HD22	1:B:12:GLY:N	2.15	0.62
1:A:34:HIS:HE1	1:A:288:ASP:OD2	1.81	0.62
1:A:3:ARG:CG	3:B:338:HOH:O	2.46	0.60
1:B:112:LEU:HA	1:B:115:LEU:HD22	1.82	0.60
1:B:123:SER:CB	1:B:135:THR:HG21	2.32	0.60
1:A:197:ARG:HH22	1:A:237:THR:HG23	1.67	0.59
1:A:298:TRP:HB3	1:B:298:TRP:HB3	1.85	0.58
1:A:22:LEU:HD21	1:A:253:GLU:HG2	1.85	0.57
1:A:69:ARG:HB3	1:A:70:PRO:HD2	1.88	0.56
1:B:22:LEU:HD21	1:B:270:LEU:HD21	1.88	0.56
1:A:11:LEU:HD22	1:A:12:GLY:N	2.22	0.55
1:B:69:ARG:HB3	1:B:70:PRO:HD2	1.89	0.55
1:B:193:GLY:O	1:B:197:ARG:HG2	2.07	0.55
1:A:216:VAL:HG13	1:A:264:ILE:CD1	2.38	0.53
1:A:143:ASN:HB2	1:A:144:PRO:CD	2.37	0.53
1:A:222:MET:HE1	1:A:231:TYR:CZ	2.44	0.53
1:A:111:GLN:O	1:A:115:LEU:HG	2.09	0.53
1:B:112:LEU:O	1:B:115:LEU:CD2	2.52	0.53
1:A:62:ALA:HB3	1:A:68:LEU:HD12	1.91	0.53
1:A:26:TRP:CE3	1:A:36:ARG:HG2	2.45	0.52
1:B:84:ILE:HD11	1:B:112:LEU:HD13	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:229:GLU:O	3:B:350:HOH:O	2.19	0.51
1:A:298:TRP:CZ3	1:B:112:LEU:HD11	2.47	0.50
1:A:250:ARG:HB3	1:A:270:LEU:HD23	1.94	0.49
1:A:75:LEU:HD13	1:A:98:ILE:HB	1.93	0.49
1:A:28:ASP:OD2	1:A:34:HIS:HD2	1.95	0.47
1:A:115:LEU:HD13	1:B:306:TYR:HB3	1.95	0.47
1:B:75:LEU:HD21	1:B:146:TRP:CE3	2.49	0.47
1:B:84:ILE:CD1	1:B:112:LEU:HD13	2.44	0.47
1:B:45:ASN:HB3	1:B:52:ASP:OD2	2.15	0.47
1:B:193:GLY:O	1:B:197:ARG:CG	2.63	0.47
1:B:152:TYR:CE1	1:B:185:THR:HG22	2.49	0.46
1:A:51:LLP:H4'1	1:A:51:LLP:OP1	2.16	0.46
1:A:209:GLU:OE1	1:A:239:ARG:HD2	2.15	0.46
1:B:53:ARG:HB2	1:B:54:PRO:CD	2.48	0.44
1:A:127:GLY:HA3	1:A:131:THR:OG1	2.18	0.43
1:A:51:LLP:H2'1	1:A:81:ASN:ND2	2.33	0.43
1:A:246:ASP:O	1:A:250:ARG:HG2	2.18	0.43
1:A:115:LEU:HD13	1:B:306:TYR:CB	2.49	0.43
1:B:250:ARG:HB3	1:B:270:LEU:HD23	2.01	0.43
1:A:101:MET:O	1:A:122:PHE:HA	2.19	0.42
1:A:217:TYR:O	1:A:218:ALA:HB3	2.19	0.42
1:B:301:LEU:O	1:B:303:THR:N	2.48	0.42
1:B:51:LLP:H4'1	1:B:51:LLP:OP1	2.20	0.42
1:A:110:ARG:HD2	1:A:122:PHE:CZ	2.55	0.41
1:A:110:ARG:HD2	1:A:122:PHE:HZ	1.85	0.41
1:A:216:VAL:HG13	1:A:264:ILE:HD12	2.01	0.41
1:B:51:LLP:H4'1	1:B:51:LLP:OP4	2.21	0.41
1:A:42:GLU:HG3	1:A:50:ILE:HD12	2.03	0.41
1:A:25:ARG:HD3	1:A:27:ASP:O	2.20	0.41
1:A:261:PHE:CE1	1:A:297:GLY:HA3	2.55	0.40
1:B:123:SER:O	1:B:124:ALA:C	2.63	0.40

All (2) 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)
3:A:328:HOH:O	3:A:407:HOH:O[4_545]	2.17	0.03
1:A:28:ASP:OD2	3:A:328:HOH:O[4_445]	2.18	0.02

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	308/326 (94%)	297 (96%)	11 (4%)	0	100	100
1	B	288/326 (88%)	278 (96%)	8 (3%)	2 (1%)	18	15
All	All	596/652 (91%)	575 (96%)	19 (3%)	2 (0%)	36	36

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	302	SER
1	B	70	PRO

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	233/243 (96%)	220 (94%)	13 (6%)	19	18
1	B	222/243 (91%)	213 (96%)	9 (4%)	27	29
All	All	455/486 (94%)	433 (95%)	22 (5%)	23	23

All (22) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	11	LEU
1	A	46	PRO
1	A	67	LEU
1	A	75	LEU

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Mol	Chain	Res	Type
1	A	106	SER
1	A	129	SER
1	A	145	SER
1	A	219	LEU
1	A	236	LEU
1	A	237	THR
1	A	239	ARG
1	A	264	ILE
1	A	301	LEU
1	B	1	MET
1	B	11	LEU
1	B	112	LEU
1	B	115	LEU
1	B	135	THR
1	B	145	SER
1	B	202	ASN
1	B	236	LEU
1	B	256	HIS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	9	GLN
1	A	34	HIS

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

2 non-standard protein/DNA/RNA residues 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
1	LLP	A	51	1	23,24,25	1.64	6 (26%)	25,32,34	1.63	6 (24%)
1	LLP	B	51	1	23,24,25	1.57	4 (17%)	25,32,34	1.61	6 (24%)

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
1	LLP	A	51	1	-	1/16/17/19	0/1/1/1
1	LLP	B	51	1	-	0/16/17/19	0/1/1/1

All (10) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	51	LLP	O3-C3	-5.05	1.25	1.36
1	B	51	LLP	O3-C3	-4.47	1.26	1.36
1	B	51	LLP	C2-N1	3.21	1.39	1.33
1	A	51	LLP	C2-N1	2.54	1.38	1.33
1	A	51	LLP	C6-N1	2.29	1.39	1.34
1	A	51	LLP	C4-C4'	2.19	1.51	1.46
1	A	51	LLP	C4'-NZ	2.08	1.34	1.27
1	B	51	LLP	C6-N1	2.08	1.38	1.34
1	B	51	LLP	C4-C4'	2.04	1.51	1.46
1	A	51	LLP	P-OP2	-2.01	1.47	1.54

All (12) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	51	LLP	OP4-C5'-C5	4.16	117.15	109.36
1	A	51	LLP	OP4-C5'-C5	4.11	117.06	109.36
1	A	51	LLP	C5-C4-C4'	-3.46	116.14	121.47
1	B	51	LLP	C5-C4-C4'	-2.79	117.17	121.47
1	B	51	LLP	C4-C3-C2	-2.56	118.70	120.14
1	A	51	LLP	C4-C4'-NZ	-2.40	112.94	124.04
1	A	51	LLP	OP3-P-OP2	2.38	116.72	107.80
1	B	51	LLP	CE-NZ-C4'	-2.20	111.68	118.72
1	B	51	LLP	C5-C6-N1	-2.18	120.29	123.83
1	B	51	LLP	C3-C4-C5	2.14	120.00	118.28
1	A	51	LLP	C3-C4-C5	2.02	119.90	118.28
1	A	51	LLP	CE-NZ-C4'	-2.02	112.26	118.72

There are no chirality outliers.

All (1) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	A	51	LLP	CA-CB-CG-CD

There are no ring outliers.

2 monomers are involved in 4 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	A	51	LLP	2	0
1	B	51	LLP	2	0

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 1 ligands modelled in this entry, 1 is monoatomic - leaving 0 for Mogul analysis.

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

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	310/326 (95%)	0.09	11 (3%) 47 49	14, 24, 44, 52	0
1	B	294/326 (90%)	0.42	17 (5%) 29 30	17, 29, 44, 62	0
All	All	604/652 (92%)	0.25	28 (4%) 37 39	14, 27, 44, 62	0

All (28) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	303	THR	3.7
1	A	304	GLY	3.6
1	A	104	ASN	3.5
1	B	201	ALA	3.5
1	B	316	ALA	3.3
1	B	30	ARG	3.1
1	A	70	PRO	2.9
1	B	315	THR	2.9
1	A	202	ASN	2.9
1	B	307	ALA	2.7
1	B	312	ASP	2.6
1	B	131	THR	2.6
1	B	240	TYR	2.5
1	A	69	ARG	2.5
1	B	305	ALA	2.5
1	B	303	THR	2.4
1	A	307	ALA	2.4
1	A	111	GLN	2.4
1	B	0	HIS	2.2
1	B	29	GLY	2.2
1	B	282	ALA	2.2
1	B	145	SER	2.2
1	A	301	LEU	2.1
1	A	106	SER	2.1

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Mol	Chain	Res	Type	RSRZ
1	B	104	ASN	2.0
1	B	210	PRO	2.0
1	A	240	TYR	2.0
1	B	304	GLY	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
1	LLP	B	51	24/25	0.97	0.06	18,21,23,23	0
1	LLP	A	51	24/25	0.98	0.05	14,18,22,24	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
2	NA	B	324	1/1	0.95	0.06	38,38,38,38	0

6.5 Other polymers [i](#)

There are no such residues in this entry.