



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 18, 2026 – 05:57 AM UTC

PDB ID : 4RQO / pdb_00004rqo
Title : Crystal structure of L-Serine Dehydratase from Legionella pneumophila
Authors : Thoden, J.B.; Holden, H.M.; Grant, G.A.
Deposited on : 2014-11-04
Resolution : 2.25 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

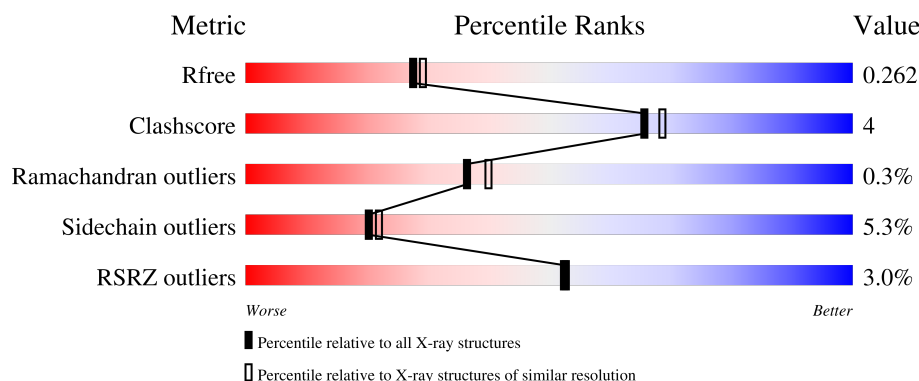
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.25 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	1898 (2.26-2.26)
Clashscore	190562	2005 (2.26-2.26)
Ramachandran outliers	187476	1965 (2.26-2.26)
Sidechain outliers	187428	1966 (2.26-2.26)
RSRZ outliers	180081	1898 (2.26-2.26)

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	476	4% 82% 10% 7%
1	B	476	% 83% 10% 6%

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 6976 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 L-serine dehydratase.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	444	Total	C	N	O	S	Se	0	0	0
			3359	2120	574	639	8	18			
1	B	448	Total	C	N	O	S	Se	0	0	0
			3395	2142	580	646	8	19			

There are 36 discrepancies between the modelled and reference sequences:

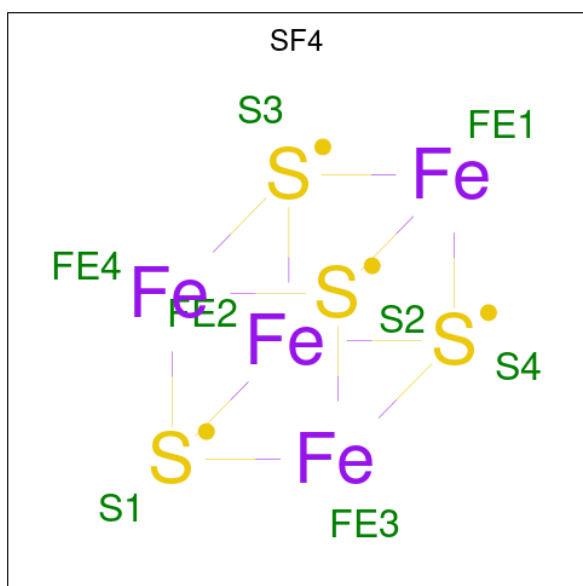
Chain	Residue	Modelled	Actual	Comment	Reference
A	-17	MSE	-	expression tag	UNP R9SE63
A	-16	GLY	-	expression tag	UNP R9SE63
A	-15	SER	-	expression tag	UNP R9SE63
A	-14	SER	-	expression tag	UNP R9SE63
A	-13	HIS	-	expression tag	UNP R9SE63
A	-12	HIS	-	expression tag	UNP R9SE63
A	-11	HIS	-	expression tag	UNP R9SE63
A	-10	HIS	-	expression tag	UNP R9SE63
A	-9	HIS	-	expression tag	UNP R9SE63
A	-8	HIS	-	expression tag	UNP R9SE63
A	-7	GLU	-	expression tag	UNP R9SE63
A	-6	ASN	-	expression tag	UNP R9SE63
A	-5	LEU	-	expression tag	UNP R9SE63
A	-4	TYR	-	expression tag	UNP R9SE63
A	-3	PHE	-	expression tag	UNP R9SE63
A	-2	GLN	-	expression tag	UNP R9SE63
A	-1	GLY	-	expression tag	UNP R9SE63
A	0	SER	-	expression tag	UNP R9SE63
B	-17	MSE	-	expression tag	UNP R9SE63
B	-16	GLY	-	expression tag	UNP R9SE63
B	-15	SER	-	expression tag	UNP R9SE63
B	-14	SER	-	expression tag	UNP R9SE63
B	-13	HIS	-	expression tag	UNP R9SE63
B	-12	HIS	-	expression tag	UNP R9SE63
B	-11	HIS	-	expression tag	UNP R9SE63

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Chain	Residue	Modelled	Actual	Comment	Reference
B	-10	HIS	-	expression tag	UNP R9SE63
B	-9	HIS	-	expression tag	UNP R9SE63
B	-8	HIS	-	expression tag	UNP R9SE63
B	-7	GLU	-	expression tag	UNP R9SE63
B	-6	ASN	-	expression tag	UNP R9SE63
B	-5	LEU	-	expression tag	UNP R9SE63
B	-4	TYR	-	expression tag	UNP R9SE63
B	-3	PHE	-	expression tag	UNP R9SE63
B	-2	GLN	-	expression tag	UNP R9SE63
B	-1	GLY	-	expression tag	UNP R9SE63
B	0	SER	-	expression tag	UNP R9SE63

- Molecule 2 is IRON/SULFUR CLUSTER (CCD ID: SF4) (formula: Fe_4S_4).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	1	Total	Fe	S	0	0
			8	4	4		
2	B	1	Total	Fe	S	0	0
			8	4	4		

- Molecule 3 is CHLORIDE ION (CCD ID: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	B	2	Total	Cl	0	0
			2	2		

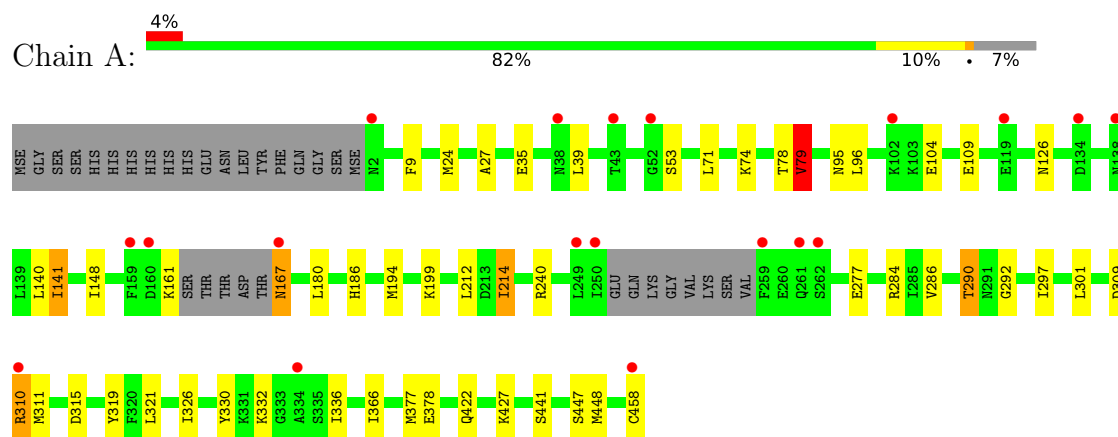
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	95	Total 95	O 95	0	0
4	B	109	Total 109	O 109	0	0

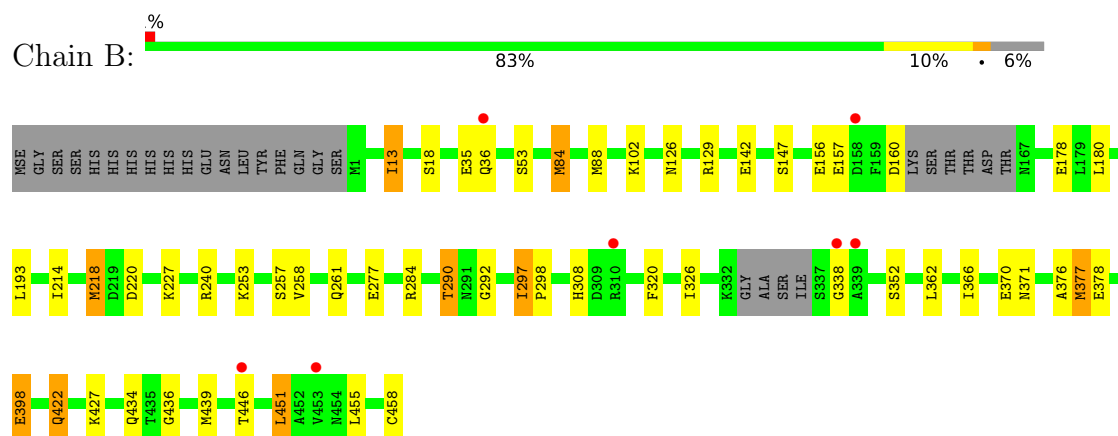
3 Residue-property plots

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: L-serine dehydratase



• Molecule 1: L-serine dehydratase



4 Data and refinement statistics

Property	Value	Source
Space group	P 31 2 1	Depositor
Cell constants a, b, c, α , β , γ	81.39Å 81.39Å 267.52Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	29.45 – 2.25 29.45 – 2.25	Depositor EDS
% Data completeness (in resolution range)	99.6 (29.45-2.25) 99.7 (29.45-2.25)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	0.10	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.62 (at 2.24Å)	Xtriage
Refinement program	REFMAC 5.7.0029	Depositor
R, R_{free}	0.198 , 0.258 0.210 , 0.262	Depositor DCC
R_{free} test set	2538 reflections (5.06%)	wwPDB-VP
Wilson B-factor (Å ²)	39.7	Xtriage
Anisotropy	0.081	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 27.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	0.033 for -h,-k,l	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	6976	wwPDB-VP
Average B, all atoms (Å ²)	44.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.91% 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: CL, SF4

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	0.99	1/3397 (0.0%)	1.04	2/4558 (0.0%)
1	B	1.14	4/3433 (0.1%)	1.15	5/4605 (0.1%)
All	All	1.07	5/6830 (0.1%)	1.10	7/9163 (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

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	13	ILE	N-CA	-5.78	1.39	1.46
1	B	220	ASP	N-CA	5.70	1.53	1.46
1	A	297	ILE	CA-CB	-5.62	1.51	1.54
1	B	377	MSE	N-CA	5.06	1.52	1.46
1	B	297	ILE	CA-CB	-5.00	1.51	1.54

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	79	VAL	CB-CA-C	-6.88	100.01	111.29
1	B	455	LEU	CA-C-N	-6.56	113.01	119.90
1	B	455	LEU	C-N-CA	-6.56	113.01	119.90
1	A	27	ALA	N-CA-C	-6.11	104.54	111.14
1	B	220	ASP	N-CA-C	5.58	117.36	111.28
1	B	218	MSE	CG-SE-CE	5.31	110.61	98.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	88	MSE	CG-SE-CE	5.01	109.95	98.92

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	167	ASN	Peptide

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	3359	0	3377	25	0
1	B	3395	0	3419	27	0
2	A	8	0	0	0	0
2	B	8	0	0	0	0
3	B	2	0	0	0	0
4	A	95	0	0	2	0
4	B	109	0	0	0	0
All	All	6976	0	6796	51	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 4.

All (51) 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:180:LEU:HD22	1:B:366:ILE:HG22	1.51	0.88
1:B:13:ILE:HD13	1:B:84:MSE:HE2	1.63	0.79
1:B:13:ILE:HD13	1:B:84:MSE:CE	2.11	0.79
1:A:290:THR:HG21	1:A:458:CYS:SG	2.26	0.75
1:A:186:HIS:NE2	4:A:668:HOH:O	2.19	0.74
1:A:24:MSE:HE1	1:A:79:VAL:HG21	1.70	0.73
1:B:180:LEU:HD22	1:B:366:ILE:CG2	2.21	0.68
1:A:53:SER:OG	1:A:126:ASN:ND2	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:214:ILE:CG2	1:B:218:MSE:HE3	2.25	0.66
1:A:290:THR:CG2	1:A:458:CYS:SG	2.87	0.62
1:A:448:MSE:HE3	4:A:671:HOH:O	2.03	0.58
1:A:214:ILE:HG23	1:A:286:VAL:HG11	1.86	0.58
1:A:24:MSE:HE1	1:A:79:VAL:CG2	2.34	0.58
1:B:290:THR:HG21	1:B:458:CYS:SG	2.44	0.58
1:B:290:THR:HG23	1:B:292:GLY:H	1.70	0.57
1:A:447:SER:O	1:A:448:MSE:HE2	2.05	0.55
1:A:180:LEU:CD2	1:A:366:ILE:HG22	2.38	0.54
1:B:240:ARG:HD3	1:B:277:GLU:HB3	1.90	0.53
1:B:218:MSE:HE1	1:B:320:PHE:HE1	1.74	0.53
1:B:308:HIS:HE1	1:B:362:LEU:HD21	1.74	0.52
1:A:194:MSE:HG3	1:A:321:LEU:O	2.10	0.52
1:B:371:ASN:ND2	1:B:422:GLN:HB2	2.25	0.52
1:A:290:THR:HG23	1:A:292:GLY:H	1.75	0.52
1:A:240:ARG:HD3	1:A:277:GLU:HB3	1.91	0.51
1:A:78:THR:O	1:A:79:VAL:C	2.53	0.49
1:B:18:SER:O	1:B:147:SER:OG	2.27	0.48
1:A:309:ASP:O	1:A:310:ARG:C	2.56	0.48
1:A:301:LEU:HD13	1:A:319:TYR:CD2	2.48	0.47
1:B:180:LEU:CD2	1:B:366:ILE:CG2	2.93	0.47
1:B:53:SER:OG	1:B:126:ASN:ND2	2.48	0.46
1:B:377:MSE:O	1:B:378:GLU:C	2.59	0.46
1:A:95:ASN:O	1:A:96:LEU:HD23	2.17	0.45
1:A:39:LEU:HD13	1:A:140:LEU:HB3	1.99	0.45
1:A:9:PHE:HB3	1:A:214:ILE:HD12	1.98	0.44
1:B:290:THR:HG23	1:B:292:GLY:N	2.31	0.44
1:A:71:LEU:HD23	1:A:71:LEU:HA	1.90	0.43
1:B:180:LEU:HD21	1:B:370:GLU:CD	2.44	0.43
1:B:297:ILE:N	1:B:298:PRO:HD2	2.35	0.42
1:B:436:GLY:O	1:B:439:MSE:HB2	2.18	0.42
1:A:148:ILE:HD12	1:A:336:ILE:HG12	2.01	0.41
1:A:311:MSE:HE3	1:A:315:ASP:HB3	2.03	0.41
1:A:330:TYR:CE1	1:A:377:MSE:HE3	2.56	0.41
1:A:378:GLU:OE1	1:B:398:GLU:OE2	2.38	0.41
1:B:129:ARG:HD3	1:B:142:GLU:HB2	2.02	0.41
1:A:24:MSE:HE2	1:A:74:LYS:C	2.46	0.40
1:B:35:GLU:OE1	1:B:102:LYS:NZ	2.46	0.40
1:B:193:LEU:C	1:B:193:LEU:HD23	2.46	0.40
1:B:308:HIS:HE1	1:B:362:LEU:CD2	2.34	0.40
1:B:290:THR:CG2	1:B:458:CYS:SG	3.08	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:352:SER:HA	1:B:376:ALA:HB3	2.04	0.40
1:B:451:LEU:HD12	1:B:451:LEU:HA	1.95	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	438/476 (92%)	416 (95%)	20 (5%)	2 (0%)	24	24
1	B	442/476 (93%)	424 (96%)	17 (4%)	1 (0%)	43	50
All	All	880/952 (92%)	840 (96%)	37 (4%)	3 (0%)	36	40

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	79	VAL
1	A	141	ILE
1	B	338	GLY

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	359/368 (98%)	341 (95%)	18 (5%)	22	24

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	B	364/368 (99%)	344 (94%)	20 (6%)	19	20
All	All	723/736 (98%)	685 (95%)	38 (5%)	20	22

All (38) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	35	GLU
1	A	79	VAL
1	A	104	GLU
1	A	109	GLU
1	A	141	ILE
1	A	161	LYS
1	A	167	ASN
1	A	199	LYS
1	A	212	LEU
1	A	214	ILE
1	A	284	ARG
1	A	290	THR
1	A	310	ARG
1	A	326	ILE
1	A	332	LYS
1	A	422	GLN
1	A	427	LYS
1	A	441	SER
1	B	36	GLN
1	B	84	MSE
1	B	156	GLU
1	B	157	GLU
1	B	160	ASP
1	B	178	GLU
1	B	227	LYS
1	B	253	LYS
1	B	257	SER
1	B	258	VAL
1	B	261	GLN
1	B	284	ARG
1	B	290	THR
1	B	326	ILE
1	B	398	GLU
1	B	422	GLN
1	B	427	LYS
1	B	434	GLN

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Mol	Chain	Res	Type
1	B	446	THR
1	B	451	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (21) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	28	ASN
1	A	61	HIS
1	A	95	ASN
1	A	98	ASN
1	A	126	ASN
1	A	167	ASN
1	A	224	ASN
1	A	261	GLN
1	A	267	HIS
1	A	422	GLN
1	B	36	GLN
1	B	61	HIS
1	B	126	ASN
1	B	186	HIS
1	B	208	HIS
1	B	224	ASN
1	B	306	GLN
1	B	308	HIS
1	B	393	GLN
1	B	422	GLN
1	B	434	GLN

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 [i](#)

Of 4 ligands modelled in this entry, 2 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	$\# Z > 2$
2	SF4	A	500	1	0,12,12	-	-	-		
2	SF4	B	501	1	0,12,12	-	-	-		

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	SF4	A	500	1	-	-	0/6/5/5
2	SF4	B	501	1	-	-	0/6/5/5

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	426/476 (89%)	0.43	19 (4%) 38 37	26, 45, 72, 98	0
1	B	429/476 (90%)	0.16	7 (1%) 70 71	25, 38, 58, 103	0
All	All	855/952 (89%)	0.30	26 (3%) 52 53	25, 41, 67, 103	0

All (26) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	38	ASN	5.3
1	A	250	ILE	4.9
1	B	338	GLY	3.8
1	A	52	GLY	3.5
1	A	138	ASN	3.4
1	A	249	LEU	2.8
1	B	339	ALA	2.8
1	A	261	GLN	2.8
1	A	43	THR	2.7
1	A	160	ASP	2.7
1	A	119	GLU	2.7
1	A	259	PHE	2.7
1	A	2	ASN	2.7
1	B	446	THR	2.6
1	B	453	VAL	2.6
1	B	158	ASP	2.5
1	A	102	LYS	2.4
1	A	262	SER	2.3
1	A	167	ASN	2.2
1	A	458	CYS	2.2
1	A	310	ARG	2.2
1	B	36	GLN	2.2
1	A	159	PHE	2.1
1	A	334	ALA	2.1

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Mol	Chain	Res	Type	RSRZ
1	B	310	ARG	2.0
1	A	134	ASP	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	CL	B	502	1/1	0.85	0.23	69,69,69,69	0
2	SF4	A	500	8/8	0.95	0.07	30,33,34,36	0
3	CL	B	503	1/1	0.95	0.24	60,60,60,60	0
2	SF4	B	501	8/8	0.96	0.07	28,31,34,35	0

6.5 Other polymers [i](#)

There are no such residues in this entry.