



Full wwPDB X-ray Structure Validation Report ⓘ

Sep 21, 2026 – 12:52 PM JST

PDB ID : 21GB / pdb_000021gb
Title : Crystal structure of sulX
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Deposited on : 2025-12-11
Resolution : 3.03 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
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.015 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.50

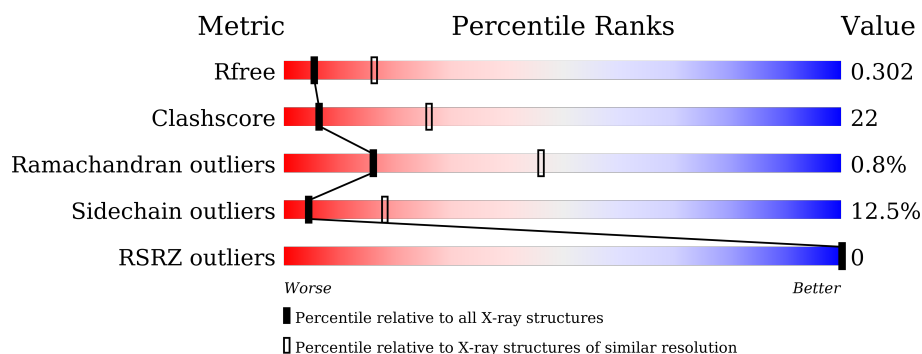
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.03 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	3685 (3.08-3.00)
Clashscore	190562	4007 (3.08-3.00)
Ramachandran outliers	187476	3834 (3.08-3.00)
Sidechain outliers	187428	3836 (3.08-3.00)
RSRZ outliers	180081	3684 (3.08-3.00)

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	423	

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 3034 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 Sulfonamide monooxygenase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	394	Total	C	N	O	S	0	0	0
			3017	1886	531	590	10			

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

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	4	Total	Zn	0	0
			4	4		

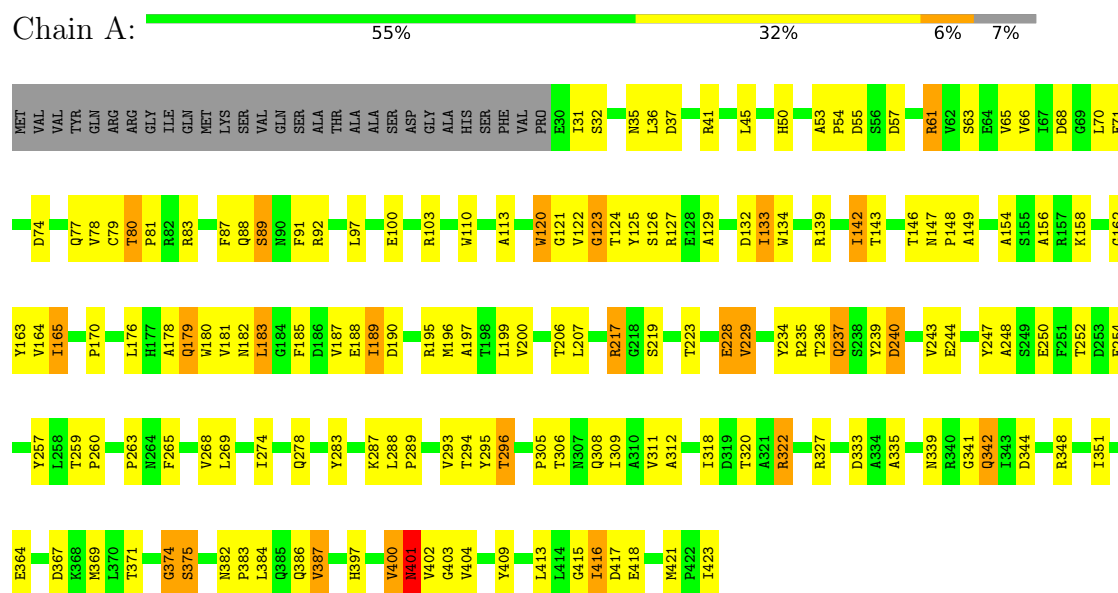
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	13	Total	O	0	0
			13	13		

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: Sulfonamide monooxygenase



4 Data and refinement statistics

Property	Value	Source
Space group	P 62 2 2	Depositor
Cell constants a, b, c, α , β , γ	134.24Å 134.24Å 139.84Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	24.22 – 3.03 24.22 – 3.03	Depositor EDS
% Data completeness (in resolution range)	94.5 (24.22-3.03) 94.7 (24.22-3.03)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.30 (at 2.99Å)	Xtriage
Refinement program	REFMAC 5.8.0238	Depositor
R, R_{free}	0.216 , 0.298 0.224 , 0.302	Depositor DCC
R_{free} test set	775 reflections (4.93%)	wwPDB-VP
Wilson B-factor (Å ²)	91.9	Xtriage
Anisotropy	0.543	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.30 , 72.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.53$, $\langle L^2 \rangle = 0.37$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	3034	wwPDB-VP
Average B, all atoms (Å ²)	123.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.76% 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: ZN

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	1.08	0/3078	1.56	10/4192 (0.2%)

There are no bond length outliers.

All (10) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	401	ASN	CB-CA-C	7.33	118.82	109.80
1	A	162	GLY	CA-C-O	-6.12	116.69	120.91
1	A	322	ARG	N-CA-C	-5.77	104.90	111.07
1	A	400	VAL	N-CA-C	-5.55	107.72	113.10
1	A	374	GLY	CA-C-O	-5.44	116.87	122.25
1	A	71	GLU	CA-C-N	5.26	127.28	120.44
1	A	71	GLU	C-N-CA	5.26	127.28	120.44
1	A	80	THR	CB-CA-C	5.20	118.25	109.67
1	A	50	HIS	CA-C-N	5.14	127.48	120.54
1	A	50	HIS	C-N-CA	5.14	127.48	120.54

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	3017	0	2926	132	1

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	A	4	0	0	0	0
3	A	13	0	0	0	0
All	All	3034	0	2926	132	1

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 22.

All (132) 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:187:VAL:HG13	1:A:189:ILE:CD1	1.49	1.42
1:A:187:VAL:CG1	1:A:189:ILE:HD11	1.59	1.30
1:A:187:VAL:O	1:A:189:ILE:CD1	1.87	1.21
1:A:187:VAL:O	1:A:189:ILE:HD12	1.45	1.17
1:A:148:PRO:HG3	1:A:195:ARG:HH22	1.08	1.12
1:A:148:PRO:HG3	1:A:195:ARG:NH2	1.85	0.92
1:A:187:VAL:HG13	1:A:189:ILE:HD13	1.56	0.88
1:A:187:VAL:C	1:A:189:ILE:HD12	1.99	0.88
1:A:228:GLU:N	1:A:228:GLU:OE2	2.07	0.87
1:A:187:VAL:HG13	1:A:189:ILE:HD11	0.88	0.86
1:A:179:GLN:HE21	1:A:179:GLN:N	1.72	0.86
1:A:149:ALA:HB3	1:A:154:ALA:HB2	1.60	0.84
1:A:187:VAL:C	1:A:189:ILE:CD1	2.51	0.83
1:A:187:VAL:CB	1:A:189:ILE:HD11	2.07	0.83
1:A:369:MET:HA	1:A:369:MET:HE2	1.60	0.82
1:A:122:VAL:HG22	1:A:199:LEU:HD21	1.62	0.81
1:A:149:ALA:O	1:A:154:ALA:HB2	1.81	0.81
1:A:156:ALA:HB1	1:A:165:ILE:HG22	1.66	0.76
1:A:189:ILE:HD12	1:A:189:ILE:N	2.01	0.75
1:A:183:LEU:HD23	1:A:183:LEU:N	2.03	0.73
1:A:35:ASN:HD21	1:A:37:ASP:HB3	1.55	0.72
1:A:148:PRO:CG	1:A:195:ARG:HH22	1.94	0.71
1:A:122:VAL:HG22	1:A:199:LEU:CD2	2.21	0.70
1:A:182:ASN:C	1:A:183:LEU:HD23	2.16	0.70
1:A:402:VAL:O	1:A:403:GLY:C	2.31	0.69
1:A:187:VAL:O	1:A:189:ILE:HD13	1.89	0.69
1:A:400:VAL:O	1:A:401:ASN:C	2.37	0.68
1:A:142:ILE:HD12	1:A:142:ILE:N	2.09	0.67
1:A:178:ALA:C	1:A:179:GLN:HE21	2.02	0.67
1:A:188:GLU:C	1:A:189:ILE:HD12	2.20	0.66
1:A:259:THR:HA	1:A:341:GLY:O	1.95	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:293:VAL:O	1:A:296:THR:HG22	1.97	0.65
1:A:278:GLN:OE1	1:A:322:ARG:NH2	2.30	0.65
1:A:288:LEU:N	1:A:289:PRO:CD	2.61	0.64
1:A:148:PRO:CG	1:A:195:ARG:NH2	2.57	0.64
1:A:179:GLN:N	1:A:179:GLN:NE2	2.44	0.63
1:A:110:TRP:HZ3	1:A:269:LEU:O	1.82	0.62
1:A:149:ALA:O	1:A:154:ALA:CB	2.48	0.61
1:A:149:ALA:CB	1:A:154:ALA:HB2	2.31	0.61
1:A:187:VAL:CG2	1:A:189:ILE:HD11	2.32	0.60
1:A:80:THR:HG23	1:A:134:TRP:CE2	2.37	0.59
1:A:287:LYS:C	1:A:289:PRO:HD2	2.27	0.59
1:A:288:LEU:N	1:A:289:PRO:HD2	2.17	0.59
1:A:402:VAL:O	1:A:403:GLY:O	2.21	0.59
1:A:77:GLN:HA	1:A:80:THR:OG1	2.01	0.59
1:A:181:VAL:HG22	1:A:183:LEU:CD2	2.32	0.59
1:A:148:PRO:HD3	1:A:195:ARG:NH2	2.18	0.59
1:A:142:ILE:HA	1:A:180:TRP:O	2.04	0.57
1:A:265:PHE:O	1:A:269:LEU:HG	2.04	0.57
1:A:240:ASP:O	1:A:244:GLU:HG2	2.05	0.57
1:A:79:CYS:HB3	1:A:120:TRP:HB2	1.88	0.56
1:A:181:VAL:HG13	1:A:183:LEU:HD21	1.89	0.55
1:A:156:ALA:CB	1:A:165:ILE:HG22	2.37	0.55
1:A:344:ASP:N	1:A:344:ASP:OD1	2.40	0.55
1:A:35:ASN:C	1:A:35:ASN:HD22	2.14	0.54
1:A:158:LYS:O	1:A:163:TYR:HA	2.08	0.54
1:A:374:GLY:O	1:A:375:SER:C	2.50	0.53
1:A:110:TRP:CZ3	1:A:269:LEU:O	2.62	0.52
1:A:113:ALA:HB1	1:A:268:VAL:HG22	1.91	0.52
1:A:55:ASP:HB2	1:A:63:SER:HB2	1.92	0.52
1:A:369:MET:HE2	1:A:369:MET:CA	2.35	0.52
1:A:263:PRO:HB2	1:A:351:ILE:HG21	1.92	0.51
1:A:409:TYR:CE2	1:A:413:LEU:HD11	2.45	0.51
1:A:120:TRP:CE3	1:A:120:TRP:C	2.89	0.51
1:A:165:ILE:CD1	1:A:229:VAL:HG23	2.39	0.51
1:A:32:SER:HB2	1:A:333:ASP:HB2	1.92	0.51
1:A:187:VAL:C	1:A:189:ILE:HD11	2.34	0.51
1:A:143:THR:HG23	1:A:181:VAL:HG23	1.92	0.51
1:A:170:PRO:HA	1:A:223:THR:HA	1.92	0.51
1:A:125:TYR:HA	1:A:248:ALA:HB3	1.92	0.51
1:A:294:THR:HG22	1:A:295:TYR:CD1	2.46	0.50
1:A:35:ASN:HD22	1:A:36:LEU:N	2.09	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:148:PRO:CD	1:A:195:ARG:NH2	2.74	0.49
1:A:185:PHE:CD1	1:A:185:PHE:C	2.91	0.49
1:A:197:ALA:HB2	1:A:239:TYR:CE2	2.47	0.49
1:A:217:ARG:CG	1:A:217:ARG:HH21	2.25	0.49
1:A:187:VAL:HG22	1:A:189:ILE:HD11	1.94	0.49
1:A:196:MET:HE3	1:A:236:THR:HG21	1.94	0.49
1:A:53:ALA:HB3	1:A:54:PRO:HD3	1.94	0.49
1:A:61:ARG:HB3	1:A:176:LEU:HD13	1.95	0.49
1:A:260:PRO:HD3	1:A:341:GLY:O	2.13	0.48
1:A:45:LEU:CD1	1:A:70:LEU:HD23	2.44	0.47
1:A:53:ALA:N	1:A:54:PRO:CD	2.77	0.47
1:A:120:TRP:HE3	1:A:121:GLY:N	2.12	0.47
1:A:283:TYR:CZ	1:A:287:LYS:HE2	2.48	0.47
1:A:415:GLY:O	1:A:416:ILE:C	2.58	0.47
1:A:217:ARG:HH21	1:A:217:ARG:HG2	1.79	0.47
1:A:63:SER:HB3	1:A:66:VAL:HG23	1.98	0.46
1:A:183:LEU:N	1:A:183:LEU:CD2	2.74	0.46
1:A:123:GLY:HA3	1:A:257:TYR:CD1	2.50	0.46
1:A:327:ARG:HD2	1:A:327:ARG:C	2.41	0.46
1:A:250:GLU:O	1:A:252:THR:HG23	2.16	0.46
1:A:100:GLU:O	1:A:103:ARG:HB2	2.15	0.46
1:A:165:ILE:HD13	1:A:229:VAL:HG23	1.97	0.46
1:A:382:ASN:OD1	1:A:383:PRO:HD2	2.16	0.46
1:A:348:ARG:NH2	1:A:423:ILE:O	2.49	0.45
1:A:53:ALA:HB1	1:A:386:GLN:HE22	1.81	0.45
1:A:87:PHE:O	1:A:88:GLN:C	2.59	0.45
1:A:158:LYS:O	1:A:163:TYR:CD2	2.70	0.45
1:A:78:VAL:O	1:A:89:SER:HB2	2.17	0.45
1:A:397:HIS:HB3	1:A:400:VAL:HG23	1.99	0.45
1:A:185:PHE:CE1	1:A:196:MET:HB2	2.52	0.45
1:A:126:SER:O	1:A:127:ARG:C	2.60	0.44
1:A:142:ILE:HD12	1:A:142:ILE:H	1.80	0.44
1:A:335:ALA:O	1:A:341:GLY:N	2.47	0.44
1:A:124:THR:O	1:A:124:THR:OG1	2.27	0.44
1:A:124:THR:HB	1:A:247:TYR:CD1	2.53	0.44
1:A:129:ALA:O	1:A:132:ASP:HB2	2.17	0.44
1:A:386:GLN:O	1:A:387:VAL:C	2.60	0.44
1:A:199:LEU:C	1:A:200:VAL:HG23	2.42	0.44
1:A:237:GLN:OE1	1:A:247:TYR:HA	2.18	0.44
1:A:228:GLU:N	1:A:228:GLU:CD	2.73	0.44
1:A:309:ILE:O	1:A:312:ALA:HB3	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:156:ALA:HB2	1:A:165:ILE:HB	1.99	0.43
1:A:187:VAL:CG1	1:A:189:ILE:CD1	2.41	0.43
1:A:126:SER:OG	1:A:234:TYR:O	2.36	0.43
1:A:404:VAL:HG12	1:A:421:MET:HE3	2.01	0.43
1:A:37:ASP:O	1:A:41:ARG:HG3	2.19	0.42
1:A:133:ILE:HG22	1:A:180:TRP:CH2	2.54	0.42
1:A:417:ASP:O	1:A:418:GLU:C	2.62	0.42
1:A:91:PHE:O	1:A:92:ARG:C	2.61	0.42
1:A:339:ASN:ND2	1:A:342:GLN:O	2.51	0.42
1:A:133:ILE:HD11	1:A:134:TRP:CE2	2.54	0.42
1:A:122:VAL:O	1:A:124:THR:N	2.52	0.41
1:A:165:ILE:HD11	1:A:229:VAL:HG23	2.03	0.41
1:A:61:ARG:CB	1:A:176:LEU:HD13	2.50	0.41
1:A:239:TYR:O	1:A:243:VAL:HG23	2.20	0.41
1:A:74:ASP:HA	1:A:139:ARG:HH12	1.85	0.41
1:A:305:PRO:O	1:A:308:GLN:HB2	2.20	0.41
1:A:81:PRO:HA	1:A:88:GLN:HB2	2.04	0.40
1:A:83:ARG:HE	1:A:254:GLU:CD	2.29	0.40
1:A:404:VAL:HB	1:A:421:MET:CE	2.52	0.40

All (1) 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)
1:A:68:ASP:OD2	1:A:68:ASP:OD2[10_444]	1.99	0.21

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	392/423 (93%)	327 (83%)	62 (16%)	3 (1%)	16	46

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	123	GLY
1	A	387	VAL
1	A	375	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	311/334 (93%)	272 (88%)	39 (12%)	4 18

All (39) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	31	ILE
1	A	57	ASP
1	A	61	ARG
1	A	65	VAL
1	A	89	SER
1	A	97	LEU
1	A	120	TRP
1	A	133	ILE
1	A	142	ILE
1	A	146	THR
1	A	147	ASN
1	A	164	VAL
1	A	165	ILE
1	A	179	GLN
1	A	183	LEU
1	A	189	ILE
1	A	190	ASP
1	A	206	THR
1	A	207	LEU
1	A	217	ARG
1	A	219	SER
1	A	228	GLU

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Mol	Chain	Res	Type
1	A	229	VAL
1	A	235	ARG
1	A	237	GLN
1	A	240	ASP
1	A	274	ILE
1	A	296	THR
1	A	306	THR
1	A	311	VAL
1	A	318	ILE
1	A	320	THR
1	A	342	GLN
1	A	364	GLU
1	A	367	ASP
1	A	371	THR
1	A	384	LEU
1	A	401	ASN
1	A	416	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (8) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	35	ASN
1	A	52	HIS
1	A	118	ASN
1	A	147	ASN
1	A	179	GLN
1	A	264	ASN
1	A	316	ASN
1	A	386	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 [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 4 ligands modelled in this entry, 4 are 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 [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	394/423 (93%)	-0.56	0 100 100	85, 118, 179, 212	0

There are no RSRZ outliers to report.

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	ZN	A	501	1/1	0.84	0.11	113,113,113,113	0
2	ZN	A	504	1/1	0.93	0.12	118,118,118,118	0
2	ZN	A	503	1/1	0.94	0.07	161,161,161,161	0
2	ZN	A	502	1/1	0.96	0.12	198,198,198,198	0

6.5 Other polymers [i](#)

There are no such residues in this entry.