



Full wwPDB X-ray Structure Validation Report ⓘ

May 25, 2020 – 04:11 am BST

PDB ID : 3VV5
Title : Crystal structure of TTC0807 complexed with (S)-2-aminoethyl-L-cysteine (AEC)
Authors : Tomita, T.; Kanemaru, Y.; Hasebe, F.; Kuzuyama, T.; Nishiyama, M.
Deposited on : 2012-07-16
Resolution : 1.90 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 following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.11
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.11

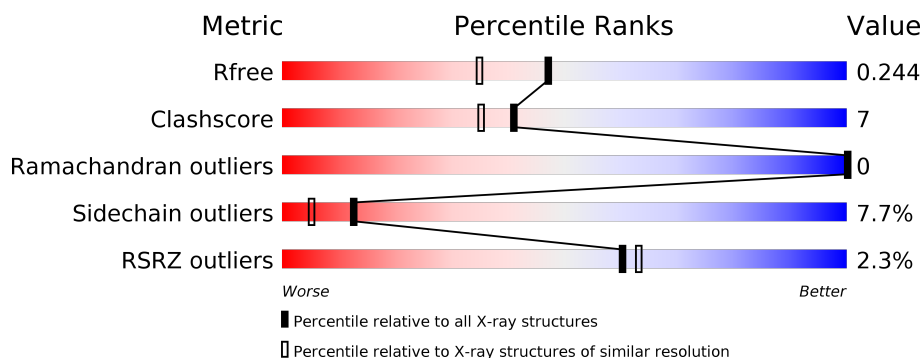
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.90 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}	130704	6207 (1.90-1.90)
Clashscore	141614	6847 (1.90-1.90)
Ramachandran outliers	138981	6760 (1.90-1.90)
Sidechain outliers	138945	6760 (1.90-1.90)
RSRZ outliers	127900	6082 (1.90-1.90)

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 on 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	260	<div> <div>3%</div> <div> <div></div> <div>77%</div> <div>13%</div> <div>•</div> <div>9%</div> </div> </div>
1	B	260	<div> <div>2%</div> <div> <div></div> <div>77%</div> <div>12%</div> <div>•</div> <div>8%</div> </div> </div>

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 4076 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 Amino acid ABC transporter, binding protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	237	Total	C	N	O	S	0	0	0
			1880	1186	340	349	5			
1	B	238	Total	C	N	O	S	0	1	0
			1897	1196	344	352	5			

There are 48 discrepancies between the modelled and reference sequences:

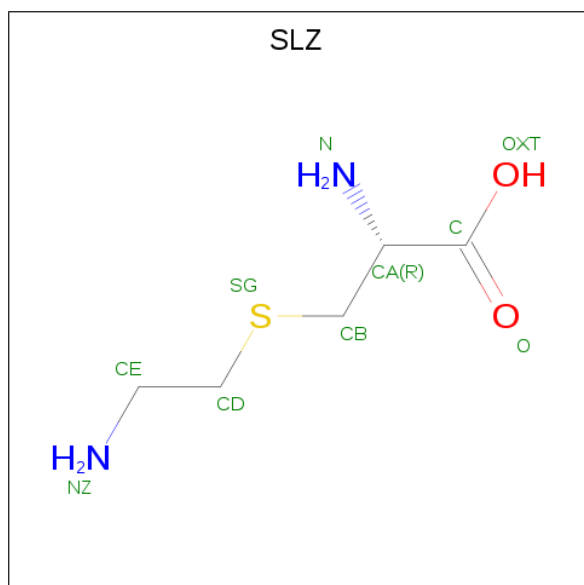
Chain	Residue	Modelled	Actual	Comment	Reference
A	-23	MET	-	EXPRESSION TAG	UNP Q72JG5
A	-22	LYS	-	EXPRESSION TAG	UNP Q72JG5
A	-21	HIS	-	EXPRESSION TAG	UNP Q72JG5
A	-20	HIS	-	EXPRESSION TAG	UNP Q72JG5
A	-19	HIS	-	EXPRESSION TAG	UNP Q72JG5
A	-18	HIS	-	EXPRESSION TAG	UNP Q72JG5
A	-17	HIS	-	EXPRESSION TAG	UNP Q72JG5
A	-16	HIS	-	EXPRESSION TAG	UNP Q72JG5
A	-15	HIS	-	EXPRESSION TAG	UNP Q72JG5
A	-14	HIS	-	EXPRESSION TAG	UNP Q72JG5
A	-13	GLY	-	EXPRESSION TAG	UNP Q72JG5
A	-12	GLY	-	EXPRESSION TAG	UNP Q72JG5
A	-11	LEU	-	EXPRESSION TAG	UNP Q72JG5
A	-10	VAL	-	EXPRESSION TAG	UNP Q72JG5
A	-9	PRO	-	EXPRESSION TAG	UNP Q72JG5
A	-8	ARG	-	EXPRESSION TAG	UNP Q72JG5
A	-7	GLY	-	EXPRESSION TAG	UNP Q72JG5
A	-6	SER	-	EXPRESSION TAG	UNP Q72JG5
A	-5	HIS	-	EXPRESSION TAG	UNP Q72JG5
A	-4	GLY	-	EXPRESSION TAG	UNP Q72JG5
A	-3	GLY	-	EXPRESSION TAG	UNP Q72JG5
A	-2	SER	-	EXPRESSION TAG	UNP Q72JG5
A	-1	GLU	-	EXPRESSION TAG	UNP Q72JG5
A	0	PHE	-	EXPRESSION TAG	UNP Q72JG5
B	-23	MET	-	EXPRESSION TAG	UNP Q72JG5

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Chain	Residue	Modelled	Actual	Comment	Reference
B	-22	LYS	-	EXPRESSION TAG	UNP Q72JG5
B	-21	HIS	-	EXPRESSION TAG	UNP Q72JG5
B	-20	HIS	-	EXPRESSION TAG	UNP Q72JG5
B	-19	HIS	-	EXPRESSION TAG	UNP Q72JG5
B	-18	HIS	-	EXPRESSION TAG	UNP Q72JG5
B	-17	HIS	-	EXPRESSION TAG	UNP Q72JG5
B	-16	HIS	-	EXPRESSION TAG	UNP Q72JG5
B	-15	HIS	-	EXPRESSION TAG	UNP Q72JG5
B	-14	HIS	-	EXPRESSION TAG	UNP Q72JG5
B	-13	GLY	-	EXPRESSION TAG	UNP Q72JG5
B	-12	GLY	-	EXPRESSION TAG	UNP Q72JG5
B	-11	LEU	-	EXPRESSION TAG	UNP Q72JG5
B	-10	VAL	-	EXPRESSION TAG	UNP Q72JG5
B	-9	PRO	-	EXPRESSION TAG	UNP Q72JG5
B	-8	ARG	-	EXPRESSION TAG	UNP Q72JG5
B	-7	GLY	-	EXPRESSION TAG	UNP Q72JG5
B	-6	SER	-	EXPRESSION TAG	UNP Q72JG5
B	-5	HIS	-	EXPRESSION TAG	UNP Q72JG5
B	-4	GLY	-	EXPRESSION TAG	UNP Q72JG5
B	-3	GLY	-	EXPRESSION TAG	UNP Q72JG5
B	-2	SER	-	EXPRESSION TAG	UNP Q72JG5
B	-1	GLU	-	EXPRESSION TAG	UNP Q72JG5
B	0	PHE	-	EXPRESSION TAG	UNP Q72JG5

- Molecule 2 is L-THIALYSINE (three-letter code: SLZ) (formula: $C_5H_{12}N_2O_2S$).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
2	A	1	Total	C	N	O	S	0	1
			17	9	3	3	2		
2	B	1	Total	C	N	O	S	0	0
			10	5	2	2	1		

- Molecule 3 is SULFATE ION (three-letter code: SO4) (formula: O₄S).

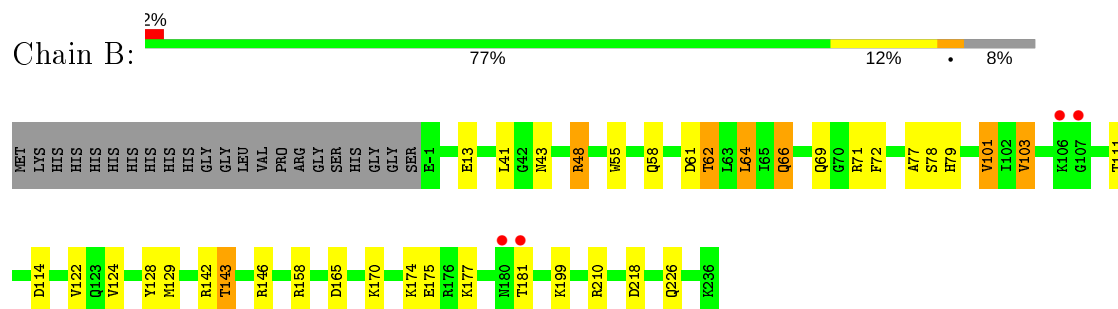


Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	B	1	Total	O	S	0	0
			5	4	1		

- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	128	Total	O	0	0
			128	128		
4	B	139	Total	O	0	0
			139	139		

- Molecule 1: Amino acid ABC transporter, binding protein



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	68.57Å 68.60Å 98.53Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	30.67 – 1.90 30.67 – 1.90	Depositor EDS
% Data completeness (in resolution range)	99.2 (30.67-1.90) 99.2 (30.67-1.90)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.08 (at 1.89Å)	Xtriage
Refinement program	REFMAC 5.5.0088	Depositor
R, R_{free}	0.188 , 0.243 0.189 , 0.244	Depositor DCC
R_{free} test set	1860 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	19.2	Xtriage
Anisotropy	0.066	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.43 , 54.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.45$, $\langle L^2 \rangle = 0.28$	Xtriage
Estimated twinning fraction	0.044 for k,h,-l	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	4076	wwPDB-VP
Average B, all atoms (Å ²)	19.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.31% 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: SO4, SLZ

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	0.62	0/1912	0.67	0/2576
1	B	0.62	0/1932	0.65	0/2602
All	All	0.62	0/3844	0.66	0/5178

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	1880	0	1886	27	0
1	B	1897	0	1905	27	1
2	A	17	0	22	5	0
2	B	10	0	11	4	0
3	B	5	0	0	0	0
4	A	128	0	0	1	1
4	B	139	0	0	7	0
All	All	4076	0	3824	54	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 7.

All (54) 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:165:ASP:HB3	1:A:168:VAL:HG13	1.48	0.94
1:B:77:ALA:O	2:B:301:SLZ:HE2	1.69	0.93
1:B:64:LEU:HD21	1:B:79:HIS:CE1	2.16	0.80
1:B:43:ASN:HD21	1:B:55:TRP:HE1	1.32	0.75
1:A:216:MET:CE	1:A:234:ARG:HD3	2.16	0.74
1:A:60:PHE:CE1	2:A:300[A]:SLZ:HD2	2.26	0.70
1:A:71:ARG:NH1	1:B:61:ASP:OD2	2.24	0.69
1:A:43:ASN:HD21	1:A:55:TRP:HE1	1.43	0.66
1:B:64:LEU:CD2	1:B:79:HIS:CE1	2.81	0.63
1:A:62:THR:HG21	1:B:62:THR:OG1	1.99	0.63
1:B:43:ASN:ND2	1:B:55:TRP:HE1	1.97	0.60
1:A:216:MET:HE2	1:A:234:ARG:HD3	1.87	0.57
1:A:197:VAL:HG13	1:A:201:ASN:HB3	1.86	0.57
1:B:124:VAL:HB	1:B:143:THR:HG23	1.89	0.54
1:A:79:HIS:HE1	4:A:417:HOH:O	1.90	0.54
1:B:79:HIS:HE1	4:B:411:HOH:O	1.91	0.54
1:A:78:SER:O	2:A:300[A]:SLZ:HB3	2.09	0.53
1:A:4:SER:OG	1:A:6:GLU:HG2	2.09	0.53
1:A:128:TYR:OH	1:A:165:ASP:HB2	2.10	0.52
1:A:43:ASN:ND2	1:A:55:TRP:HE1	2.07	0.51
1:A:78:SER:HB2	2:A:300[A]:SLZ:HD3	1.94	0.50
1:B:66:GLN:HE21	1:B:66:GLN:HA	1.77	0.49
2:B:301:SLZ:NZ	4:B:530:HOH:O	2.34	0.49
1:A:87:ARG:O	1:A:199:LYS:CE	2.59	0.49
1:B:58:GLN:HE22	1:B:66:GLN:HG3	1.77	0.48
2:B:301:SLZ:CD	4:B:530:HOH:O	2.60	0.48
1:B:111:THR:O	1:B:114:ASP:HB2	2.13	0.48
1:A:216:MET:HE3	1:A:234:ARG:HD3	1.96	0.47
1:B:48:ARG:NH2	1:B:218:ASP:OD2	2.49	0.45
1:B:64:LEU:HD22	4:B:411:HOH:O	2.16	0.45
1:B:48:ARG:HD3	1:B:48:ARG:HA	1.77	0.45
1:B:199:LYS:HD3	1:B:199:LYS:HA	1.83	0.45
1:A:87:ARG:O	1:A:199:LYS:HE2	2.17	0.44
1:A:78:SER:HA	1:A:193:VAL:HG11	1.99	0.44
1:A:66:GLN:HE22	1:A:71:ARG:HH11	1.65	0.44
1:B:170:LYS:HE2	4:B:507:HOH:O	2.16	0.44
1:A:60:PHE:CD1	2:A:300[B]:SLZ:HE2	2.53	0.43
1:A:66:GLN:HE22	1:A:71:ARG:NH1	2.16	0.43
1:A:87:ARG:O	1:A:199:LYS:HE3	2.18	0.43
1:B:226:GLN:HG2	4:B:472:HOH:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:211:ALA:O	1:A:215:LEU:HG	2.18	0.43
1:B:146:ARG:HD2	4:B:459:HOH:O	2.19	0.42
1:B:58:GLN:NE2	1:B:71:ARG:HH11	2.17	0.42
1:B:58:GLN:OE1	1:B:62:THR:CG2	2.68	0.42
1:B:101:VAL:HG13	1:B:103:VAL:HG12	2.01	0.42
1:A:60:PHE:CD1	2:A:300[A]:SLZ:HD2	2.54	0.42
1:B:142:ARG:NH1	1:B:158:ARG:O	2.52	0.42
1:B:128:TYR:OH	1:B:165:ASP:HB2	2.20	0.42
1:B:78:SER:HB2	2:B:301:SLZ:HE3	2.01	0.42
1:A:7:GLU:O	1:A:10:ARG:HG3	2.21	0.41
1:B:58:GLN:OE1	1:B:62:THR:HG23	2.19	0.41
1:A:90:ASP:HB2	1:A:197:VAL:HG12	2.02	0.41
1:A:183:GLN:HG2	1:A:183:GLN:O	2.21	0.41
1:B:122:VAL:HG21	1:B:129:MET:HA	2.03	0.41

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:B:210[A]:ARG:NH2	4:A:526:HOH:O[2_564]	1.47	0.73

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	235/260 (90%)	232 (99%)	3 (1%)	0	100	100
1	B	237/260 (91%)	233 (98%)	4 (2%)	0	100	100
All	All	472/520 (91%)	465 (98%)	7 (2%)	0	100	100

There are no Ramachandran outliers to report.

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	195/213 (92%)	180 (92%)	15 (8%)	13	5
1	B	197/213 (92%)	182 (92%)	15 (8%)	13	5
All	All	392/426 (92%)	362 (92%)	30 (8%)	13	5

All (30) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1	GLN
1	A	6	GLU
1	A	9	LYS
1	A	10	ARG
1	A	13	GLU
1	A	41	LEU
1	A	54	ARG
1	A	72	PHE
1	A	103	VAL
1	A	181	THR
1	A	183	GLN
1	A	186	GLU
1	A	197	VAL
1	A	217	GLN
1	A	236	LYS
1	B	13	GLU
1	B	41	LEU
1	B	48	ARG
1	B	62	THR
1	B	64	LEU
1	B	66	GLN
1	B	69	GLN
1	B	72	PHE
1	B	101	VAL
1	B	103	VAL
1	B	143	THR
1	B	174	LYS

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Mol	Chain	Res	Type
1	B	175	GLU
1	B	177	LYS
1	B	181	THR

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (9) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	43	ASN
1	A	66	GLN
1	A	79	HIS
1	B	43	ASN
1	B	66	GLN
1	B	69	GLN
1	B	79	HIS
1	B	145	GLN
1	B	183	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 carbohydrates in this entry.

5.6 Ligand geometry [i](#)

4 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	SLZ	B	301	-	6,9,9	0.75	0	4,10,10	1.72	1 (25%)
3	SO4	B	302	-	4,4,4	0.12	0	6,6,6	0.15	0
2	SLZ	A	300[B]	-	6,9,9	0.85	0	4,10,10	1.35	1 (25%)
2	SLZ	A	300[A]	-	6,9,9	0.62	0	4,10,10	1.43	1 (25%)

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	SLZ	B	301	-	-	1/5/9/9	-
2	SLZ	A	300[B]	-	-	2/5/9/9	-
2	SLZ	A	300[A]	-	-	3/5/9/9	-

There are no bond length outliers.

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	301	SLZ	CB-SG-CD	2.59	110.03	102.27
2	A	300[B]	SLZ	CA-CB-SG	2.13	121.54	113.74
2	A	300[A]	SLZ	CB-SG-CD	-2.04	96.14	102.27

There are no chirality outliers.

All (6) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	300[A]	SLZ	N-CA-CB-SG
2	A	300[A]	SLZ	C-CA-CB-SG
2	A	300[A]	SLZ	SG-CD-CE-NZ
2	A	300[B]	SLZ	C-CA-CB-SG
2	A	300[B]	SLZ	N-CA-CB-SG
2	B	301	SLZ	CE-CD-SG-CB

There are no ring outliers.

3 monomers are involved in 9 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	301	SLZ	4	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	300[B]	SLZ	1	0
2	A	300[A]	SLZ	4	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 [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	237/260 (91%)	0.14	7 (2%) 50 53	10, 18, 29, 34	0
1	B	238/260 (91%)	0.08	4 (1%) 70 72	9, 17, 27, 37	0
All	All	475/520 (91%)	0.11	11 (2%) 60 63	9, 17, 28, 37	0

All (11) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	236	LYS	4.6
1	B	180	ASN	3.3
1	B	107	GLY	3.1
1	A	10	ARG	3.0
1	A	134	LYS	2.8
1	A	158	ARG	2.7
1	A	54	ARG	2.5
1	A	142	ARG	2.2
1	B	106	LYS	2.2
1	B	181	THR	2.1
1	A	1	GLN	2.1

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 carbohydrates 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(\AA^2)	Q<0.9
2	SLZ	A	300[B]	10/10	0.80	0.24	15,20,21,27	7
2	SLZ	A	300[A]	10/10	0.80	0.24	3,19,21,25	7
2	SLZ	B	301	10/10	0.89	0.18	15,17,26,26	0
3	SO4	B	302	5/5	0.94	0.18	53,54,54,54	0

6.5 Other polymers [i](#)

There are no such residues in this entry.