



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 13, 2017 – 02:52 am GMT

PDB ID : 3X38
Title : Crystal structure of the C-terminal domain of Sld7
Authors : Itou, H.; Araki, H.; Shirakihara, Y.
Deposited on : 2015-01-16
Resolution : 1.80 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

<http://wwpdb.org/validation/2016/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 : 1.7.2 (RC1), CSD as538be (2017)
Xtriage (Phenix) : 1.9-1692
EDS : trunk28620
Percentile statistics : 20161228.v01 (using entries in the PDB archive December 28th 2016)
Refmac : 5.8.0135
CCP4 : 6.5.0
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : recalc28949

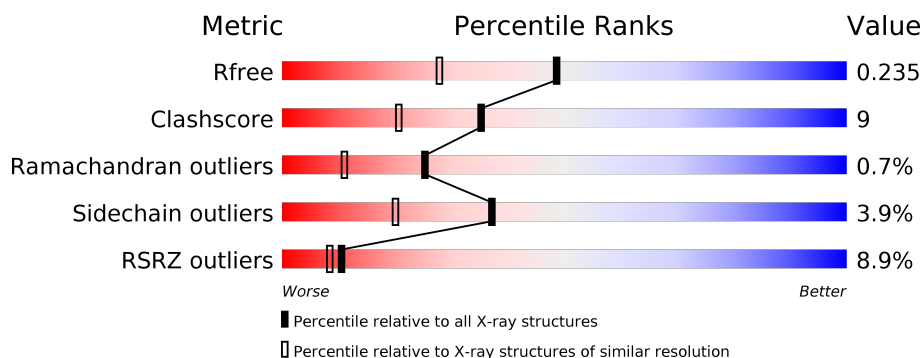
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.80 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}	100719	4827 (1.80-1.80)
Clashscore	112137	5742 (1.80-1.80)
Ramachandran outliers	110173	5676 (1.80-1.80)
Sidechain outliers	110143	5675 (1.80-1.80)
RSRZ outliers	101464	4906 (1.80-1.80)

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. 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	89	<div> <div>6%</div> <div> <div></div> <div>76%</div> <div>9%</div> <div>•</div> <div>12%</div> </div> </div>
1	B	89	<div> <div>8%</div> <div> <div></div> <div>80%</div> <div>7%</div> <div>•</div> <div>11%</div> </div> </div>
1	C	89	<div> <div>13%</div> <div> <div></div> <div>72%</div> <div>13%</div> <div>••</div> <div>11%</div> </div> </div>
1	D	89	<div> <div>4%</div> <div> <div></div> <div>71%</div> <div>10%</div> <div>6%</div> <div>13%</div> </div> </div>

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 3029 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 Mitochondrial morphogenesis protein SLD7.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	78	Total	C	N	O	S	0	0	0
			631	401	107	122	1			
1	B	79	Total	C	N	O	S	0	0	0
			639	407	108	123	1			
1	C	79	Total	C	N	O	S	0	0	0
			639	407	108	123	1			
1	D	77	Total	C	N	O	S	0	0	0
			625	398	106	120	1			

There are 36 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	177	MET	-	EXPRESSION TAG	UNP Q08457
A	258	LEU	-	EXPRESSION TAG	UNP Q08457
A	259	GLU	-	EXPRESSION TAG	UNP Q08457
A	260	HIS	-	EXPRESSION TAG	UNP Q08457
A	261	HIS	-	EXPRESSION TAG	UNP Q08457
A	262	HIS	-	EXPRESSION TAG	UNP Q08457
A	263	HIS	-	EXPRESSION TAG	UNP Q08457
A	264	HIS	-	EXPRESSION TAG	UNP Q08457
A	265	HIS	-	EXPRESSION TAG	UNP Q08457
B	177	MET	-	EXPRESSION TAG	UNP Q08457
B	258	LEU	-	EXPRESSION TAG	UNP Q08457
B	259	GLU	-	EXPRESSION TAG	UNP Q08457
B	260	HIS	-	EXPRESSION TAG	UNP Q08457
B	261	HIS	-	EXPRESSION TAG	UNP Q08457
B	262	HIS	-	EXPRESSION TAG	UNP Q08457
B	263	HIS	-	EXPRESSION TAG	UNP Q08457
B	264	HIS	-	EXPRESSION TAG	UNP Q08457
B	265	HIS	-	EXPRESSION TAG	UNP Q08457
C	177	MET	-	EXPRESSION TAG	UNP Q08457
C	258	LEU	-	EXPRESSION TAG	UNP Q08457
C	259	GLU	-	EXPRESSION TAG	UNP Q08457

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Chain	Residue	Modelled	Actual	Comment	Reference
C	260	HIS	-	EXPRESSION TAG	UNP Q08457
C	261	HIS	-	EXPRESSION TAG	UNP Q08457
C	262	HIS	-	EXPRESSION TAG	UNP Q08457
C	263	HIS	-	EXPRESSION TAG	UNP Q08457
C	264	HIS	-	EXPRESSION TAG	UNP Q08457
C	265	HIS	-	EXPRESSION TAG	UNP Q08457
D	177	MET	-	EXPRESSION TAG	UNP Q08457
D	258	LEU	-	EXPRESSION TAG	UNP Q08457
D	259	GLU	-	EXPRESSION TAG	UNP Q08457
D	260	HIS	-	EXPRESSION TAG	UNP Q08457
D	261	HIS	-	EXPRESSION TAG	UNP Q08457
D	262	HIS	-	EXPRESSION TAG	UNP Q08457
D	263	HIS	-	EXPRESSION TAG	UNP Q08457
D	264	HIS	-	EXPRESSION TAG	UNP Q08457
D	265	HIS	-	EXPRESSION TAG	UNP Q08457

- Molecule 2 is SULFATE ION (three-letter code: SO4) (formula: O₄S).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	1	Total	O	S	0	0
			5	4	1		
2	D	1	Total	O	S	0	0
			5	4	1		
2	D	1	Total	O	S	0	0
			5	4	1		

- Molecule 3 is GLYCEROL (three-letter code: GOL) (formula: C₃H₈O₃).



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

- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	125	Total	O	0	0
			125	125		
4	B	100	Total	O	0	0
			100	100		
4	C	115	Total	O	0	0
			115	115		
4	D	134	Total	O	0	0
			134	134		

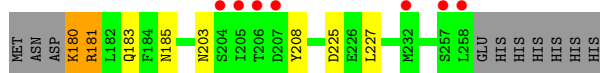
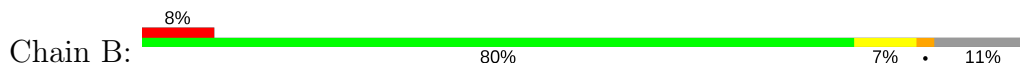
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA and DNA 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: Mitochondrial morphogenesis protein SLD7



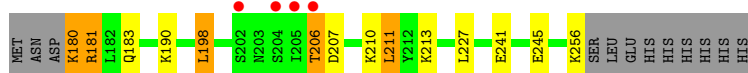
- Molecule 1: Mitochondrial morphogenesis protein SLD7



- Molecule 1: Mitochondrial morphogenesis protein SLD7



- Molecule 1: Mitochondrial morphogenesis protein SLD7



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	34.09Å 60.54Å 93.13Å 90.00° 94.10° 90.00°	Depositor
Resolution (Å)	34.01 – 1.80 34.01 – 1.80	Depositor EDS
% Data completeness (in resolution range)	98.5 (34.01-1.80) 98.5 (34.01-1.80)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.94 (at 1.81Å)	Xtriage
Refinement program	PHENIX (phenix.refine: 1.8.4_1496)	Depositor
R, R_{free}	0.206 , 0.234 0.207 , 0.235	Depositor DCC
R_{free} test set	1736 reflections (5.02%)	DCC
Wilson B-factor (Å ²)	21.7	Xtriage
Anisotropy	0.061	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.42 , 68.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	3029	wwPDB-VP
Average B, all atoms (Å ²)	27.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.12% 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: GOL, SO4

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	0.36	0/638	0.50	0/852
1	B	0.37	0/646	0.51	0/863
1	C	0.38	0/646	0.54	1/863 (0.1%)
1	D	0.38	0/632	0.56	1/844 (0.1%)
All	All	0.37	0/2562	0.53	2/3422 (0.1%)

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	211	LEU	CA-CB-CG	6.32	129.84	115.30
1	C	198	LEU	CA-CB-CG	6.11	129.35	115.30

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	631	0	649	16	0
1	B	639	0	660	7	0
1	C	639	0	660	13	0
1	D	625	0	644	12	1
2	A	5	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	D	10	0	0	1	0
3	A	6	0	8	2	0
4	A	125	0	0	4	1
4	B	100	0	0	2	0
4	C	115	0	0	6	1
4	D	134	0	0	5	1
All	All	3029	0	2621	48	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 9.

All (48) 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:D:256:LYS:NZ	4:D:503:HOH:O	2.15	0.80
1:A:180:LYS:NZ	4:A:411:HOH:O	2.12	0.79
1:C:209:GLN:OE1	4:C:403:HOH:O	2.03	0.76
1:C:198:LEU:HD13	1:C:199:ARG:HG3	1.75	0.68
1:B:180:LYS:HE2	1:C:240:PHE:CE1	2.29	0.68
1:B:180:LYS:HE3	1:B:185:ASN:HB2	1.79	0.65
1:D:180:LYS:N	1:D:227:LEU:O	2.31	0.64
1:D:213:LYS:HE3	4:D:470:HOH:O	1.98	0.64
1:C:207:ASP:HB2	1:C:210:LYS:HB2	1.79	0.63
1:D:206:THR:OG1	1:D:210:LYS:NZ	2.31	0.63
1:B:180:LYS:HA	1:B:227:LEU:HD22	1.83	0.60
1:B:181:ARG:HH21	1:B:183:GLN:H	1.50	0.59
1:A:180:LYS:HA	1:A:181:ARG:HB3	1.83	0.59
1:A:228:LYS:HD3	4:A:513:HOH:O	2.02	0.59
1:C:180:LYS:N	1:C:227:LEU:O	2.36	0.58
1:B:180:LYS:C	1:B:180:LYS:HD2	2.24	0.58
1:D:181:ARG:NH1	4:D:500:HOH:O	2.37	0.58
1:C:183:GLN:HG3	4:C:376:HOH:O	2.03	0.57
1:A:203:ASN:HA	1:A:208:TYR:CG	2.40	0.56
1:A:181:ARG:HB2	1:A:230:ILE:HG21	1.89	0.54
1:A:181:ARG:NH2	4:A:423:HOH:O	2.39	0.54
1:D:181:ARG:HD3	1:D:183:GLN:HB3	1.89	0.53
1:C:199:ARG:O	4:C:385:HOH:O	2.18	0.53
1:A:180:LYS:HG3	1:A:227:LEU:HD13	1.90	0.53
1:A:181:ARG:HH21	3:A:302:GOL:H2	1.74	0.53
1:B:225:ASP:OD2	4:B:355:HOH:O	2.18	0.53
1:D:180:LYS:HA	1:D:227:LEU:HD22	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:248:GLU:HG2	4:C:408:HOH:O	2.08	0.52
1:C:181:ARG:HH21	1:C:183:GLN:H	1.56	0.51
1:A:180:LYS:N	1:A:227:LEU:HB3	2.25	0.51
1:D:207:ASP:O	1:D:211:LEU:HB2	2.11	0.51
1:B:203:ASN:HA	1:B:208:TYR:CG	2.46	0.50
1:A:203:ASN:HA	1:A:208:TYR:CD2	2.49	0.48
1:D:241:GLU:O	1:D:245:GLU:HG3	2.14	0.48
1:C:206:THR:OG1	1:C:207:ASP:N	2.47	0.46
2:D:302:SO4:O3	4:D:440:HOH:O	2.20	0.46
1:A:257:SER:HB3	4:B:377:HOH:O	2.16	0.45
1:D:180:LYS:HB2	1:D:227:LEU:HB3	1.98	0.44
1:A:181:ARG:HG3	1:A:184:PHE:H	1.83	0.44
1:C:181:ARG:NH2	1:C:183:GLN:H	2.16	0.42
1:D:190:LYS:NZ	4:D:456:HOH:O	2.48	0.42
1:A:180:LYS:HA	1:A:181:ARG:CB	2.50	0.42
1:A:180:LYS:HG2	1:A:220:GLU:OE1	2.19	0.42
1:C:252:LYS:NZ	4:C:397:HOH:O	2.18	0.41
1:D:198:LEU:HD12	1:D:198:LEU:HA	1.92	0.41
1:A:181:ARG:HD2	3:A:302:GOL:O2	2.20	0.41
1:C:181:ARG:NH1	4:C:310:HOH:O	2.54	0.40
1:A:257:SER:N	4:A:441:HOH:O	2.34	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)
1:D:241:GLU:OE1	4:C:406:HOH:O[1_455]	1.88	0.32
4:A:460:HOH:O	4:D:462:HOH:O[1_545]	1.97	0.23

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	76/89 (85%)	74 (97%)	1 (1%)	1 (1%)	14	3
1	B	77/89 (86%)	77 (100%)	0	0	100	100
1	C	77/89 (86%)	74 (96%)	2 (3%)	1 (1%)	14	3
1	D	75/89 (84%)	75 (100%)	0	0	100	100
All	All	305/356 (86%)	300 (98%)	3 (1%)	2 (1%)	25	11

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	C	205	ILE
1	A	181	ARG

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	71/82 (87%)	70 (99%)	1 (1%)	71	64
1	B	72/82 (88%)	70 (97%)	2 (3%)	49	34
1	C	72/82 (88%)	68 (94%)	4 (6%)	25	9
1	D	70/82 (85%)	66 (94%)	4 (6%)	24	9
All	All	285/328 (87%)	274 (96%)	11 (4%)	37	20

All (11) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	180	LYS
1	B	180	LYS
1	B	181	ARG
1	C	181	ARG
1	C	189	SER
1	C	198	LEU
1	C	205	ILE
1	D	180	LYS
1	D	181	ARG

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Mol	Chain	Res	Type
1	D	198	LEU
1	D	206	THR

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
1	C	209	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	SO4	A	301	-	4,4,4	0.19	0	6,6,6	0.24	0
3	GOL	A	302	-	5,5,5	0.19	0	5,5,5	0.63	0
2	SO4	D	301	-	4,4,4	0.17	0	6,6,6	0.11	0
2	SO4	D	302	-	4,4,4	0.10	0	6,6,6	0.25	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	SO4	A	301	-	-	0/0/0/0	0/0/0/0
3	GOL	A	302	-	-	0/4/4/4	0/0/0/0
2	SO4	D	301	-	-	0/0/0/0	0/0/0/0
2	SO4	D	302	-	-	0/0/0/0	0/0/0/0

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.

2 monomers are involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	302	GOL	2	0
2	D	302	SO4	1	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	78/89 (87%)	0.16	5 (6%) 20 16	15, 23, 42, 52	0
1	B	79/89 (88%)	0.43	7 (8%) 10 8	15, 25, 48, 55	0
1	C	79/89 (88%)	0.96	12 (15%) 2 2	12, 27, 50, 64	0
1	D	77/89 (86%)	0.32	4 (5%) 28 23	10, 22, 41, 45	0
All	All	313/356 (87%)	0.47	28 (8%) 10 8	10, 24, 45, 64	0

All (28) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	205	ILE	10.6
1	C	206	THR	5.7
1	C	204	SER	5.4
1	A	257	SER	5.1
1	C	203	ASN	4.8
1	B	205	ILE	4.7
1	C	207	ASP	4.5
1	B	206	THR	4.4
1	D	206	THR	4.0
1	B	258	LEU	4.0
1	C	258	LEU	4.0
1	C	233	GLY	3.6
1	B	204	SER	3.6
1	B	232	MET	3.0
1	A	207	ASP	2.9
1	C	198	LEU	2.8
1	C	234	SER	2.8
1	C	231	SER	2.7
1	D	204	SER	2.7
1	C	257	SER	2.6
1	A	204	SER	2.5

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Mol	Chain	Res	Type	RSRZ
1	D	205	ILE	2.5
1	A	206	THR	2.4
1	D	202	SER	2.4
1	C	235	GLY	2.4
1	B	257	SER	2.3
1	A	205	ILE	2.3
1	B	207	ASP	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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. 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	LLDF	B-factors(Å ²)	Q<0.9
2	SO4	D	302	5/5	0.98	0.20	0.66	14,26,40,42	0
2	SO4	D	301	5/5	0.92	0.19	-	39,44,48,50	0
2	SO4	A	301	5/5	0.98	0.19	-	23,37,44,47	0
3	GOL	A	302	6/6	0.76	0.17	-	27,32,37,41	0

6.5 Other polymers [i](#)

There are no such residues in this entry.