



wwPDB X-ray Structure Validation Summary Report ⓘ

Feb 1, 2016 – 04:01 PM GMT

PDB ID : 4E47
Title : SET7/9 in complex with inhibitor (R)-(3-(3-cyanophenyl)-1-oxo-1-(pyrrolidin-1-yl)propan-2-yl)-1,2,3,4-tetrahydroisoquinoline-6-sulfonamide and S-adenosylmethionine
Authors : Walker, J.R.; Ouyang, H.; Dong, A.; Fish, P.; Cook, A.; Barsyte, D.; Vedadi, M.; Tatlock, J.; Owen, D.; Bunnage, M.; Bountra, C.; Weigelt, J.; Edwards, A.M.; Arrowsmith, C.H.; Brown, P.J.; Structural Genomics Consortium (SGC)
Deposited on : 2012-03-12
Resolution : 2.00 Å(reported)

This is a wwPDB X-ray Structure Validation Summary 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 (RC4), CSD as536be (2015)
Xtriage (Phenix) : 1.9-1692
EDS : rb-20026688
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
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) : trunk26865

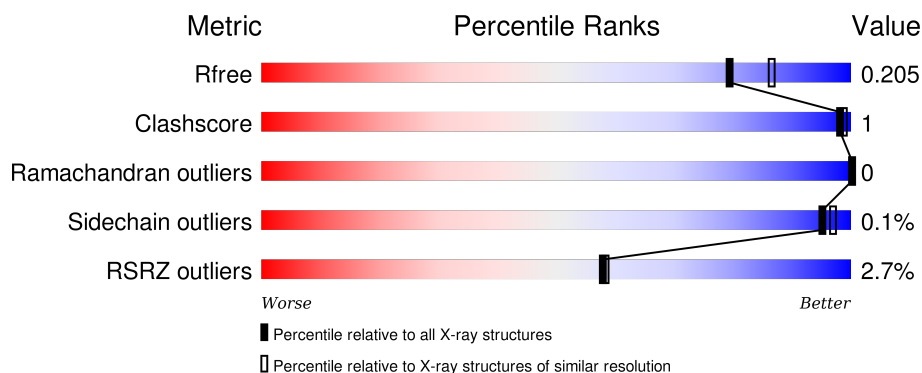
1 Overall quality at a glance ⓘ

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.00 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}	91344	6249 (2.00-2.00)
Clashscore	102246	7340 (2.00-2.00)
Ramachandran outliers	100387	7248 (2.00-2.00)
Sidechain outliers	100360	7247 (2.00-2.00)
RSRZ outliers	91569	6262 (2.00-2.00)

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 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	264	<div> <div>3%</div> <div>90%</div> <div>7%</div> </div>
1	B	264	<div> <div>2%</div> <div>91%</div> <div>7%</div> </div>
1	C	264	<div> <div>2%</div> <div>90%</div> <div>7%</div> </div>
1	D	264	<div> <div>3%</div> <div>93%</div> <div>5%</div> </div>

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard

residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
4	BME	A	403	-	-	-	X

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 8934 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 Histone-lysine N-methyltransferase SETD7.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	246	Total	C	N	O	S	0	6	0
			1952	1238	322	380	12			
1	B	245	Total	C	N	O	S	0	6	0
			1951	1233	321	385	12			
1	C	245	Total	C	N	O	S	0	5	0
			1935	1228	315	380	12			
1	D	250	Total	C	N	O	S	0	6	0
			1983	1257	326	388	12			

There are 24 discrepancies between the modelled and reference sequences:

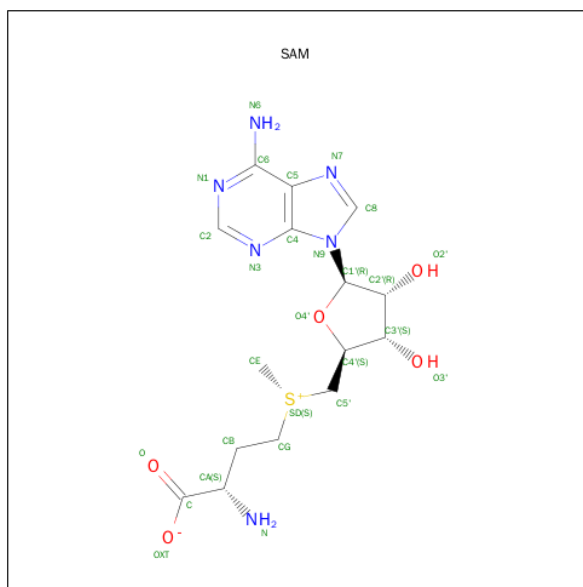
Chain	Residue	Modelled	Actual	Comment	Reference
A	367	HIS	-	EXPRESSION TAG	UNP Q8WTS6
A	368	HIS	-	EXPRESSION TAG	UNP Q8WTS6
A	369	HIS	-	EXPRESSION TAG	UNP Q8WTS6
A	370	HIS	-	EXPRESSION TAG	UNP Q8WTS6
A	371	HIS	-	EXPRESSION TAG	UNP Q8WTS6
A	372	HIS	-	EXPRESSION TAG	UNP Q8WTS6
B	367	HIS	-	EXPRESSION TAG	UNP Q8WTS6
B	368	HIS	-	EXPRESSION TAG	UNP Q8WTS6
B	369	HIS	-	EXPRESSION TAG	UNP Q8WTS6
B	370	HIS	-	EXPRESSION TAG	UNP Q8WTS6
B	371	HIS	-	EXPRESSION TAG	UNP Q8WTS6
B	372	HIS	-	EXPRESSION TAG	UNP Q8WTS6
C	367	HIS	-	EXPRESSION TAG	UNP Q8WTS6
C	368	HIS	-	EXPRESSION TAG	UNP Q8WTS6
C	369	HIS	-	EXPRESSION TAG	UNP Q8WTS6
C	370	HIS	-	EXPRESSION TAG	UNP Q8WTS6
C	371	HIS	-	EXPRESSION TAG	UNP Q8WTS6
C	372	HIS	-	EXPRESSION TAG	UNP Q8WTS6
D	367	HIS	-	EXPRESSION TAG	UNP Q8WTS6
D	368	HIS	-	EXPRESSION TAG	UNP Q8WTS6
D	369	HIS	-	EXPRESSION TAG	UNP Q8WTS6

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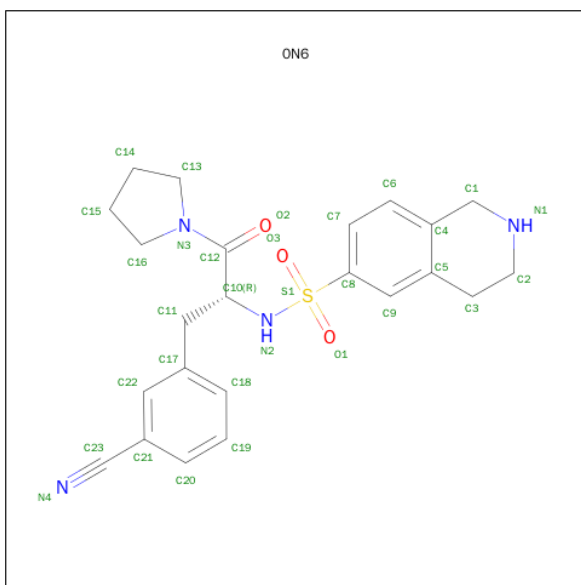
Chain	Residue	Modelled	Actual	Comment	Reference
D	370	HIS	-	EXPRESSION TAG	UNP Q8WTS6
D	371	HIS	-	EXPRESSION TAG	UNP Q8WTS6
D	372	HIS	-	EXPRESSION TAG	UNP Q8WTS6

- Molecule 2 is S-ADENOSYLMETHIONINE (three-letter code: SAM) (formula: $C_{15}H_{22}N_6O_5S$).



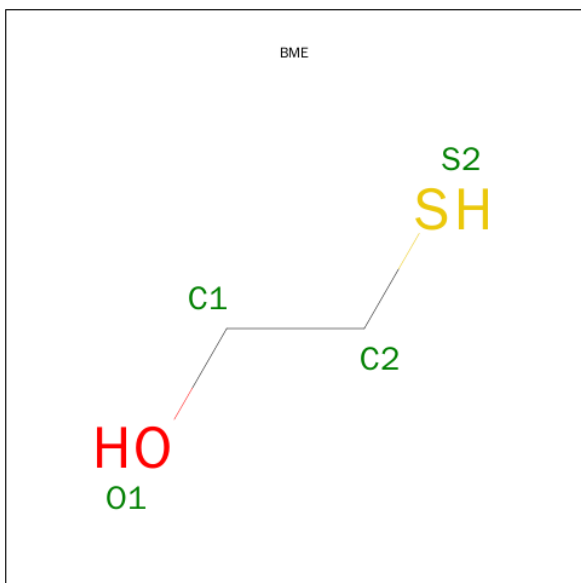
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
2	A	1	Total	C	N	O	S	0	0
			27	15	6	5	1		
2	B	1	Total	C	N	O	S	0	0
			27	15	6	5	1		
2	C	1	Total	C	N	O	S	0	0
			27	15	6	5	1		
2	D	1	Total	C	N	O	S	0	0
			27	15	6	5	1		

- Molecule 3 is (R)-(3-(3-CYANOPHENYL)-1-OXO-1-(PYRROLIDIN-1-YL)PROPAN-2-YL)-1,2,3,4-TETRAHYDROISOQUINOLINE-6-SULFONAMIDE (three-letter code: 0N6) (formula: $C_{23}H_{26}N_4O_3S$).



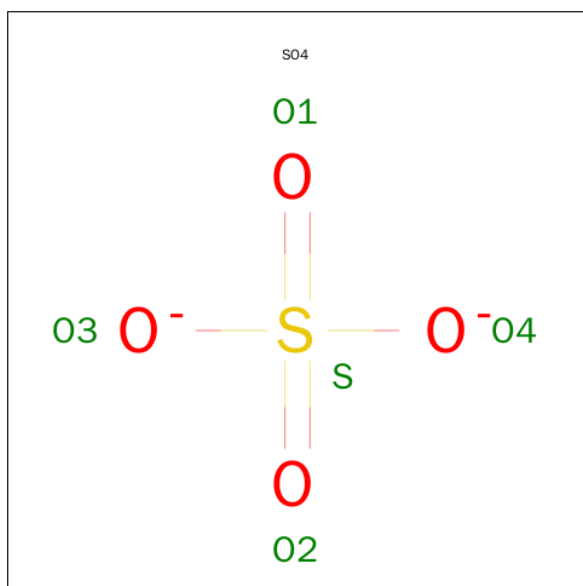
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	A	1	Total	C	N	O	S	0	0
			31	23	4	3	1		
3	B	1	Total	C	N	O	S	0	0
			31	23	4	3	1		
3	C	1	Total	C	N	O	S	0	0
			31	23	4	3	1		
3	D	1	Total	C	N	O	S	0	0
			31	23	4	3	1		

- Molecule 4 is BETA-MERCAPTOETHANOL (three-letter code: BME) (formula: C_2H_6OS).



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

- Molecule 5 is SULFATE ION (three-letter code: SO4) (formula: O₄S).



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

- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	245	Total	O	0	6
			251	251		
6	B	236	Total	O	0	3
			239	239		
6	C	189	Total	O	0	2
			191	191		
6	D	187	Total	O	0	4
			191	191		

- Molecule 1: Histone-lysine N-methyltransferase SETD7



- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-----|-----|-----|
| GLN | TYR | LYS | ASP | ASN | ILE | ARG | H116 | D136 | G137 | I144 | F159 | V260 | T266 | D338 | HIS | SER | PRO | PRO | GLY | LYS | SER | GLY | PRO | E348 | K366 | H369 | HIS | HIS | HIS |
|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-----|-----|-----|

- GLN
 TYR
 LYS
 ASP
 ASN
 ILE
 ARG
 HIS
 G117
 V133
 M134
 E135
 D136
 M139
 T266
 I304
 Y305
 Y333
 A334
 Y335
 S340
 PRO
 PRO
 GLY
 LYS
 SER
 GLY
 PRO
 GLU
 A349
 H368
 H369
 HIS
 HIS
 HIS

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- | Category | Count |
|----------|-------|
| GLN | 1 |
| TYR | 1 |
| ASP | 1 |
| ASN | 1 |
| ILE | 1 |
| ARG | 1 |
| H16 | 1 |
| E176 | 1 |
| Q253 | 1 |
| A261 | 1 |
| P280 | 1 |
| K286 | 1 |
| H339 | 1 |
| S340 | 1 |
| P341 | 1 |
| PRO | 1 |
| GLY | 1 |
| LYS | 1 |
| SER | 1 |
| K346 | 1 |
| P347 | 1 |
| K358 | 1 |
| H368 | 1 |
| H369 | 1 |
| HIS | 1 |
| HIS | 1 |

4 Data and refinement statistics

Property	Value	Source
Space group	C 2 2 21	Depositor
Cell constants a, b, c, α , β , γ	117.34Å 133.80Å 136.87Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	39.88 – 2.00 37.69 – 2.00	Depositor EDS
% Data completeness (in resolution range)	(Not available) (39.88-2.00) 99.4 (37.69-2.00)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.10	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.51 (at 2.00Å)	Xtriage
Refinement program	BUSTER 2.8.0, COOT 0.6	Depositor
R, R_{free}	0.160 , 0.201 0.160 , 0.205	Depositor DCC
R_{free} test set	3632 reflections (5.29%)	DCC
Wilson B-factor (Å ²)	25.4	Xtriage
Anisotropy	0.109	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 51.5	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Outliers	0 of 72353 reflections	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	8934	wwPDB-VP
Average B, all atoms (Å ²)	30.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 16.00% 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, 0.375 respectively for untwinned datasets, and 0.333, 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: BME, SO4, SAM, 0N6

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	0.54	0/2012	0.65	0/2737
1	B	0.53	0/2008	0.63	0/2731
1	C	0.51	0/1999	0.62	0/2720
1	D	0.47	0/2046	0.59	0/2783
All	All	0.51	0/8065	0.62	0/10971

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 [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	1952	0	1842	5	0
1	B	1951	0	1820	3	0
1	C	1935	0	1814	5	0
1	D	1983	0	1860	3	0
2	A	27	0	22	0	0
2	B	27	0	22	0	0
2	C	27	0	22	0	0
2	D	27	0	22	0	0
3	A	31	0	26	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	B	31	0	26	1	0
3	C	31	0	26	2	0
3	D	31	0	26	0	0
4	A	4	0	5	0	0
5	A	5	0	0	0	0
6	A	251	0	0	0	0
6	B	239	0	0	1	0
6	C	191	0	0	0	0
6	D	191	0	0	0	0
All	All	8934	0	7533	15	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 1.

The worst 5 of 15 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:168:LYS:HG2	1:A:190[B]:VAL:HG12	1.81	0.62
1:B:366:LYS:NZ	6:B:1013:HOH:O	2.43	0.51
1:B:266:THR:O	3:B:801:ON6:H2O	2.11	0.50
1:A:305:TYR:CZ	1:A:333[A]:VAL:HG21	2.47	0.49
1:D:339:HIS:HA	1:D:347:PRO:HB3	1.98	0.46

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	248/264 (94%)	240 (97%)	8 (3%)	0	100	100
1	B	247/264 (94%)	238 (96%)	9 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	C	246/264 (93%)	238 (97%)	8 (3%)	0	100	100
1	D	252/264 (96%)	247 (98%)	5 (2%)	0	100	100
All	All	993/1056 (94%)	963 (97%)	30 (3%)	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	211/227 (93%)	211 (100%)	0	100	100
1	B	211/227 (93%)	211 (100%)	0	100	100
1	C	210/227 (92%)	209 (100%)	1 (0%)	92	94
1	D	215/227 (95%)	215 (100%)	0	100	100
All	All	847/908 (93%)	846 (100%)	1 (0%)	95	97

All (1) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	C	304	ILE

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

Mol	Chain	Res	Type
1	D	181	HIS
1	D	188	ASN

5.3.3 RNA ⓘ

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](#)

10 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	SAM	A	401	-	21,29,29	1.58	3 (14%)	17,42,42	2.23	4 (23%)
3	ON6	A	402	-	34,34,34	1.93	4 (11%)	47,48,48	1.41	4 (8%)
4	BME	A	403	1	3,3,3	0.43	0	2,2,2	0.27	0
5	SO4	A	404	-	4,4,4	0.15	0	6,6,6	0.09	0
2	SAM	B	800	-	21,29,29	1.83	6 (28%)	17,42,42	2.86	4 (23%)
3	ON6	B	801	-	34,34,34	1.53	3 (8%)	47,48,48	1.24	5 (10%)
2	SAM	C	800	-	21,29,29	1.65	4 (19%)	17,42,42	3.25	4 (23%)
3	ON6	C	801	-	34,34,34	1.85	3 (8%)	47,48,48	1.23	3 (6%)
2	SAM	D	800	-	21,29,29	1.51	4 (19%)	17,42,42	3.03	4 (23%)
3	ON6	D	801	-	34,34,34	1.70	3 (8%)	47,48,48	1.35	4 (8%)

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	SAM	A	401	-	-	0/8/33/33	0/3/3/3
3	ON6	A	402	-	-	0/25/39/39	0/4/4/4
4	BME	A	403	1	-	0/1/1/1	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
5	SO4	A	404	-	-	0/0/0/0	0/0/0/0
2	SAM	B	800	-	-	0/8/33/33	0/3/3/3
3	0N6	B	801	-	-	0/25/39/39	0/4/4/4
2	SAM	C	800	-	-	0/8/33/33	0/3/3/3
3	0N6	C	801	-	-	0/25/39/39	0/4/4/4
2	SAM	D	800	-	-	0/8/33/33	0/3/3/3
3	0N6	D	801	-	-	0/25/39/39	0/4/4/4

The worst 5 of 30 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	800	SAM	C8-N7	-4.40	1.26	1.34
2	D	800	SAM	C8-N7	-4.36	1.26	1.34
2	B	800	SAM	C8-N7	-3.47	1.28	1.34
3	D	801	0N6	S1-N2	2.04	1.65	1.61
2	B	800	SAM	C2-N1	2.07	1.37	1.33

The worst 5 of 32 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	800	SAM	N3-C2-N1	-12.06	119.66	128.89
2	D	800	SAM	N3-C2-N1	-11.11	120.39	128.89
2	B	800	SAM	N3-C2-N1	-9.58	121.56	128.89
2	A	401	SAM	N3-C2-N1	-7.12	123.44	128.89
3	A	402	0N6	O1-S1-O3	-6.72	110.62	119.54

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	B	801	0N6	1	0
3	C	801	0N6	2	0

5.7 Other polymers ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

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	246/264 (93%)	-0.21	8 (3%)	50	51	16, 24, 48, 89	0
1	B	245/264 (92%)	-0.31	4 (1%)	74	75	14, 24, 47, 71	1 (0%)
1	C	245/264 (92%)	-0.27	6 (2%)	62	63	18, 27, 50, 76	1 (0%)
1	D	250/264 (94%)	-0.19	9 (3%)	46	48	21, 32, 56, 93	0
All	All	986/1056 (93%)	-0.24	27 (2%)	58	58	14, 27, 50, 93	2 (0%)

The worst 5 of 27 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	340	SER	7.6
1	D	346	GLY	7.1
1	A	347	PRO	6.6
1	A	346	GLY	5.6
1	A	260	TRP	5.2

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

There are no non-standard protein/DNA/RNA residues in this entry.

6.3 Carbohydrates ⓘ

There are no carbohydrates in this entry.

6.4 Ligands ⓘ

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(\AA^2)	Q<0.9
4	BME	A	403	4/4	0.89	0.17	2.99	44,48,51,53	0
5	SO4	A	404	5/5	0.82	0.17	1.62	98,102,103,104	0
3	0N6	D	801	31/31	0.98	0.10	-0.15	18,30,42,51	0
2	SAM	A	401	27/27	0.98	0.10	-0.15	14,18,21,25	0
2	SAM	B	800	27/27	0.98	0.10	-0.24	17,19,22,25	0
3	0N6	A	402	31/31	0.97	0.09	-0.27	18,23,30,33	0
3	0N6	B	801	31/31	0.97	0.09	-0.32	18,23,32,38	0
2	SAM	D	800	27/27	0.97	0.08	-0.35	24,27,34,35	0
3	0N6	C	801	31/31	0.98	0.09	-0.41	16,24,31,38	0
2	SAM	C	800	27/27	0.98	0.07	-0.98	19,23,25,29	0

6.5 Other polymers [i](#)

There are no such residues in this entry.