



wwPDB X-ray Structure Validation Summary Report ⓘ

Mar 5, 2026 – 08:57 PM UTC

PDB ID : 5MG8 / pdb_00005mg8
Title : Crystal structure of the S.pombe Smc5/6 hinge domain
Authors : Alt, A.; Pearl, L.H.; Oliver, A.W.
Deposited on : 2016-11-21
Resolution : 2.75 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

<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

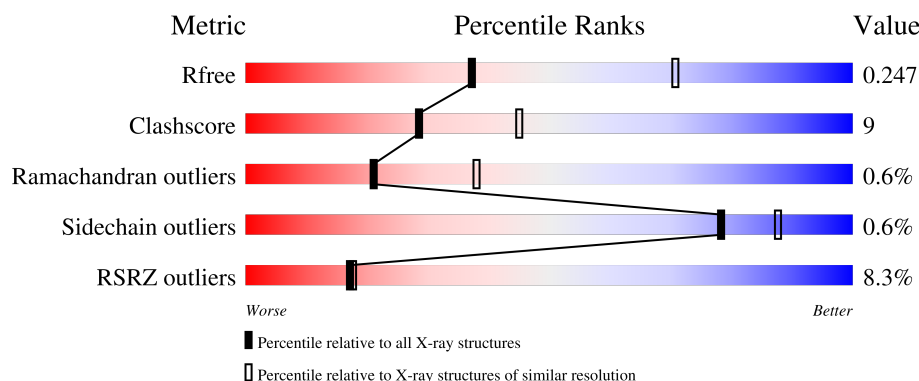
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.75 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	1009 (2.76-2.76)
Clashscore	190562	1044 (2.76-2.76)
Ramachandran outliers	187476	1024 (2.76-2.76)
Sidechain outliers	187428	1024 (2.76-2.76)
RSRZ outliers	180081	1009 (2.76-2.76)

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	347	7% 65% 17% 19%
1	C	347	5% 66% 15% 19%
2	B	294	12% 68% 21% 10%
2	D	294	5% 70% 19% 10%

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 8681 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 Structural maintenance of chromosomes protein 5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	282	Total	C	N	O	S	0	2	0
			2197	1402	364	422	9			
1	C	280	Total	C	N	O	S	0	0	0
			2214	1411	368	426	9			

There are 40 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	346	MET	-	initiating methionine	UNP O13710
A	347	GLY	-	expression tag	UNP O13710
A	348	SER	-	expression tag	UNP O13710
A	349	HIS	-	expression tag	UNP O13710
A	350	HIS	-	expression tag	UNP O13710
A	351	HIS	-	expression tag	UNP O13710
A	352	HIS	-	expression tag	UNP O13710
A	353	HIS	-	expression tag	UNP O13710
A	354	HIS	-	expression tag	UNP O13710
A	355	SER	-	expression tag	UNP O13710
A	356	ALA	-	expression tag	UNP O13710
A	357	ALA	-	expression tag	UNP O13710
A	358	LEU	-	expression tag	UNP O13710
A	359	GLU	-	expression tag	UNP O13710
A	360	VAL	-	expression tag	UNP O13710
A	361	LEU	-	expression tag	UNP O13710
A	362	PHE	-	expression tag	UNP O13710
A	363	GLN	-	expression tag	UNP O13710
A	364	GLY	-	expression tag	UNP O13710
A	365	PRO	-	expression tag	UNP O13710
C	346	MET	-	initiating methionine	UNP O13710
C	347	GLY	-	expression tag	UNP O13710
C	348	SER	-	expression tag	UNP O13710
C	349	HIS	-	expression tag	UNP O13710
C	350	HIS	-	expression tag	UNP O13710

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Chain	Residue	Modelled	Actual	Comment	Reference
C	351	HIS	-	expression tag	UNP O13710
C	352	HIS	-	expression tag	UNP O13710
C	353	HIS	-	expression tag	UNP O13710
C	354	HIS	-	expression tag	UNP O13710
C	355	SER	-	expression tag	UNP O13710
C	356	ALA	-	expression tag	UNP O13710
C	357	ALA	-	expression tag	UNP O13710
C	358	LEU	-	expression tag	UNP O13710
C	359	GLU	-	expression tag	UNP O13710
C	360	VAL	-	expression tag	UNP O13710
C	361	LEU	-	expression tag	UNP O13710
C	362	PHE	-	expression tag	UNP O13710
C	363	GLN	-	expression tag	UNP O13710
C	364	GLY	-	expression tag	UNP O13710
C	365	PRO	-	expression tag	UNP O13710

- Molecule 2 is a protein called Structural maintenance of chromosomes protein 6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	264	Total	C	N	O	S	0	2	0
			2027	1278	368	373	8			
2	D	264	Total	C	N	O	S	0	2	0
			2069	1295	376	389	9			

There are 42 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	427	MET	-	initiating methionine	UNP P53692
B	428	ALA	-	expression tag	UNP P53692
B	429	SER	-	expression tag	UNP P53692
B	430	TRP	-	expression tag	UNP P53692
B	431	SER	-	expression tag	UNP P53692
B	432	HIS	-	expression tag	UNP P53692
B	433	PRO	-	expression tag	UNP P53692
B	434	GLN	-	expression tag	UNP P53692
B	435	PHE	-	expression tag	UNP P53692
B	436	GLU	-	expression tag	UNP P53692
B	437	LYS	-	expression tag	UNP P53692
B	438	GLY	-	expression tag	UNP P53692
B	439	ALA	-	expression tag	UNP P53692
B	440	LEU	-	expression tag	UNP P53692
B	441	GLU	-	expression tag	UNP P53692

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Chain	Residue	Modelled	Actual	Comment	Reference
B	442	VAL	-	expression tag	UNP P53692
B	443	LEU	-	expression tag	UNP P53692
B	444	PHE	-	expression tag	UNP P53692
B	445	GLN	-	expression tag	UNP P53692
B	446	GLY	-	expression tag	UNP P53692
B	447	PRO	-	expression tag	UNP P53692
D	427	MET	-	initiating methionine	UNP P53692
D	428	ALA	-	expression tag	UNP P53692
D	429	SER	-	expression tag	UNP P53692
D	430	TRP	-	expression tag	UNP P53692
D	431	SER	-	expression tag	UNP P53692
D	432	HIS	-	expression tag	UNP P53692
D	433	PRO	-	expression tag	UNP P53692
D	434	GLN	-	expression tag	UNP P53692
D	435	PHE	-	expression tag	UNP P53692
D	436	GLU	-	expression tag	UNP P53692
D	437	LYS	-	expression tag	UNP P53692
D	438	GLY	-	expression tag	UNP P53692
D	439	ALA	-	expression tag	UNP P53692
D	440	LEU	-	expression tag	UNP P53692
D	441	GLU	-	expression tag	UNP P53692
D	442	VAL	-	expression tag	UNP P53692
D	443	LEU	-	expression tag	UNP P53692
D	444	PHE	-	expression tag	UNP P53692
D	445	GLN	-	expression tag	UNP P53692
D	446	GLY	-	expression tag	UNP P53692
D	447	PRO	-	expression tag	UNP P53692

- Molecule 3 is SULFATE ION (CCD ID: SO4) (formula: O₄S).



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

- Molecule 4 is GLYCEROL (CCD ID: GOL) (formula: C₃H₈O₃).



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

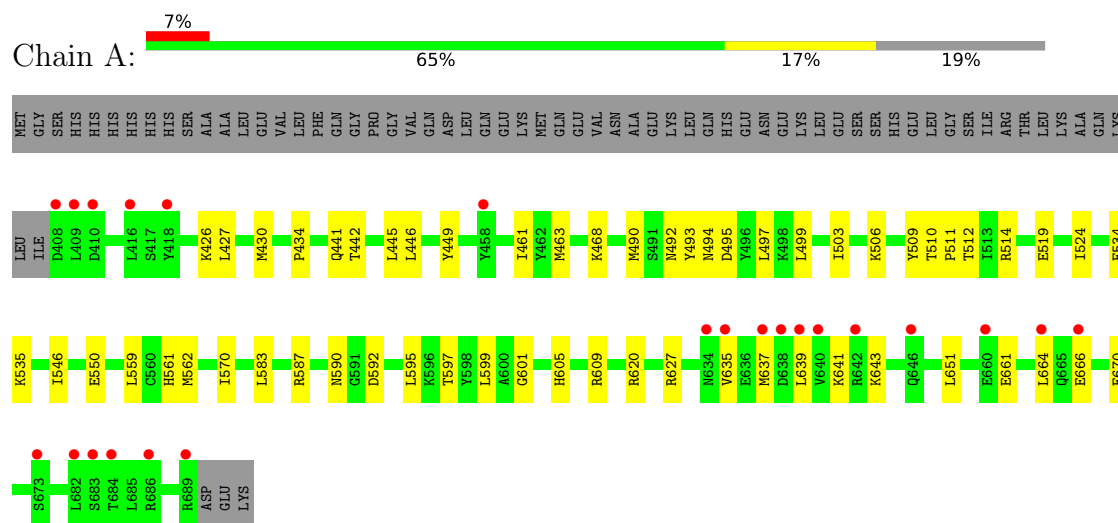
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	22	Total	O	0	0
			22	22		
5	B	29	Total	O	0	0
			29	29		
5	C	19	Total	O	0	0
			19	19		
5	D	35	Total	O	0	0
			35	35		

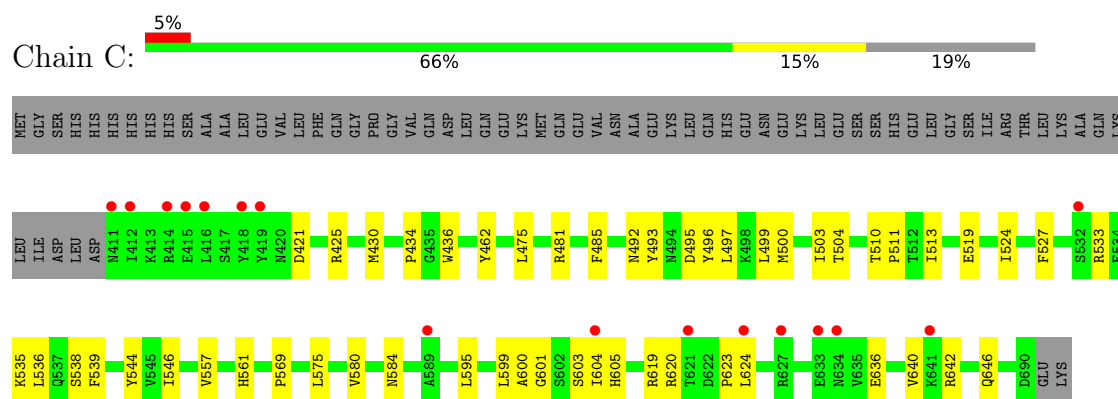
3 Residue-property plots [i](#)

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.

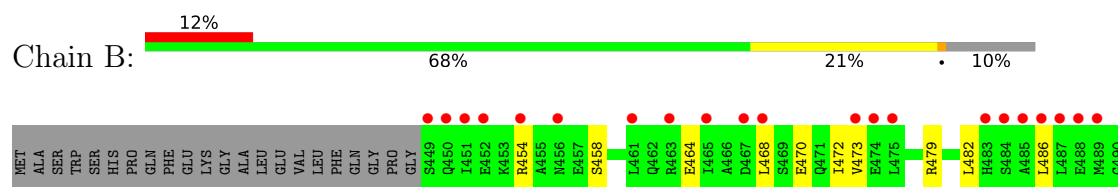
- Molecule 1: Structural maintenance of chromosomes protein 5

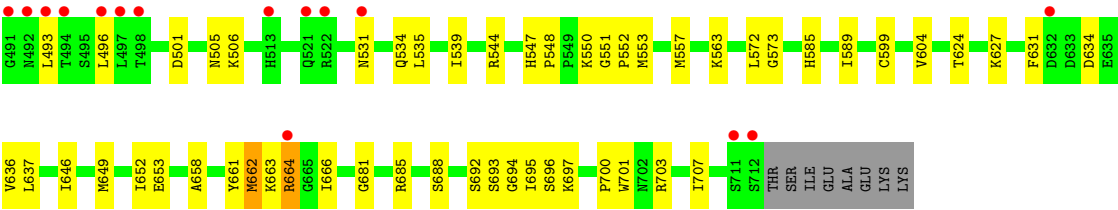


- Molecule 1: Structural maintenance of chromosomes protein 5

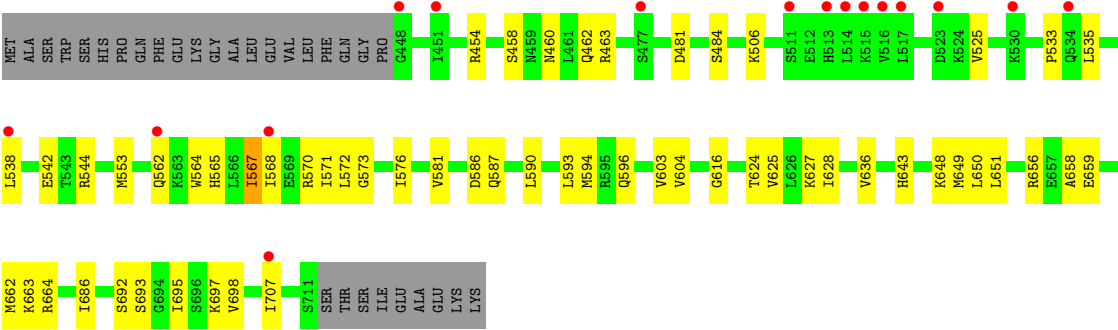


- Molecule 2: Structural maintenance of chromosomes protein 6





● Molecule 2: Structural maintenance of chromosomes protein 6



4 Data and refinement statistics

Property	Value	Source
Space group	C 2 2 21	Depositor
Cell constants a, b, c, α , β , γ	172.56Å 196.46Å 122.44Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	45.58 – 2.75 45.58 – 2.75	Depositor EDS
% Data completeness (in resolution range)	100.0 (45.58-2.75) 99.9 (45.58-2.75)	Depositor EDS
R_{merge}	0.12	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.75 (at 2.77Å)	Xtriage
Refinement program	PHENIX (1.11.1_2575: ???)	Depositor
R, R_{free}	0.209 , 0.249 0.211 , 0.247	Depositor DCC
R_{free} test set	2730 reflections (4.77%)	wwPDB-VP
Wilson B-factor (Å ²)	63.2	Xtriage
Anisotropy	0.451	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 78.4	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	8681	wwPDB-VP
Average B, all atoms (Å ²)	82.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 7.72% 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	0.15	0/2247	0.35	0/3049
1	C	0.13	0/2261	0.32	0/3063
2	B	0.15	0/2070	0.34	0/2803
2	D	0.14	0/2113	0.35	0/2856
All	All	0.14	0/8691	0.34	0/11771

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	2197	0	2070	45	0
1	C	2214	0	2109	39	0
2	B	2027	0	1974	45	0
2	D	2069	0	2021	39	0
3	A	10	0	0	1	0
3	B	5	0	0	0	0
3	C	20	0	0	2	0
3	D	10	0	0	0	0
4	A	6	0	8	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	B	6	0	8	1	0
4	D	12	0	16	1	0
5	A	22	0	0	1	0
5	B	29	0	0	0	0
5	C	19	0	0	0	0
5	D	35	0	0	1	0
All	All	8681	0	8206	147	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 9.

The worst 5 of 147 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:C:599:LEU:HD13	1:C:604:ILE:HD12	1.37	1.06
1:C:599:LEU:HD13	1:C:604:ILE:CD1	2.04	0.87
2:B:634:ASP:H	4:B:802:GOL:H31	1.45	0.81
2:B:547:HIS:HD2	2:B:548:PRO:HD2	1.46	0.80
1:C:535:LYS:O	1:C:538:SER:HB2	1.83	0.79

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	281/347 (81%)	274 (98%)	6 (2%)	1 (0%)	30	50
1	C	278/347 (80%)	272 (98%)	4 (1%)	2 (1%)	18	34
2	B	264/294 (90%)	254 (96%)	8 (3%)	2 (1%)	16	30
2	D	264/294 (90%)	247 (94%)	15 (6%)	2 (1%)	16	30
All	All	1087/1282 (85%)	1047 (96%)	33 (3%)	7 (1%)	21	38

5 of 7 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	B	573	GLY
1	C	601	GLY
2	D	565	HIS
2	B	572	LEU
1	C	481	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	226/313 (72%)	226 (100%)	0	100	100
1	C	232/313 (74%)	232 (100%)	0	100	100
2	B	211/263 (80%)	208 (99%)	3 (1%)	59	75
2	D	222/263 (84%)	218 (98%)	4 (2%)	51	71
All	All	891/1152 (77%)	884 (99%)	7 (1%)	78	84

5 of 7 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	D	567	ILE
2	D	656[A]	ARG
2	D	663	LYS
2	D	656[B]	ARG
2	B	664[B]	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 24 such sidechains are listed below:

Mol	Chain	Res	Type
1	C	648	ASN
2	D	471	GLN
1	C	665	GLN
2	D	483	HIS
2	B	547	HIS

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 oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

13 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	$\# Z > 2$
4	GOL	D	804	-	5,5,5	0.38	0	5,5,5	0.25	0
4	GOL	D	803	-	5,5,5	0.37	0	5,5,5	0.30	0
3	SO4	C	702	-	4,4,4	0.23	0	6,6,6	0.07	0
3	SO4	C	703	-	4,4,4	0.24	0	6,6,6	0.07	0
3	SO4	D	801	-	4,4,4	0.24	0	6,6,6	0.08	0
3	SO4	C	704	-	4,4,4	0.24	0	6,6,6	0.06	0
3	SO4	B	801	-	4,4,4	0.24	0	6,6,6	0.07	0
3	SO4	A	701	-	4,4,4	0.23	0	6,6,6	0.09	0
3	SO4	C	701	-	4,4,4	0.24	0	6,6,6	0.08	0
3	SO4	D	802	-	4,4,4	0.24	0	6,6,6	0.07	0
4	GOL	A	703	-	5,5,5	0.37	0	5,5,5	0.34	0
3	SO4	A	702	-	4,4,4	0.23	0	6,6,6	0.07	0
4	GOL	B	802	-	5,5,5	0.37	0	5,5,5	0.29	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
4	GOL	D	804	-	-	2/4/4/4	-
4	GOL	D	803	-	-	2/4/4/4	-
4	GOL	B	802	-	-	0/4/4/4	-
4	GOL	A	703	-	-	0/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (4) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	D	803	GOL	O1-C1-C2-C3
4	D	804	GOL	O1-C1-C2-C3
4	D	804	GOL	O1-C1-C2-O2
4	D	803	GOL	O1-C1-C2-O2

There are no ring outliers.

5 monomers are involved in 5 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	D	803	GOL	1	0
3	C	703	SO4	1	0
3	A	701	SO4	1	0
3	C	701	SO4	1	0
4	B	802	GOL	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 [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	282/347 (81%)	0.40	23 (8%)	17 18	44, 72, 128, 181	1 (0%)
1	C	280/347 (80%)	0.40	16 (5%)	29 29	50, 77, 130, 170	0
2	B	264/294 (89%)	0.59	36 (13%)	7 5	38, 74, 147, 182	2 (0%)
2	D	264/294 (89%)	0.44	16 (6%)	27 27	40, 75, 143, 209	2 (0%)
All	All	1090/1282 (85%)	0.46	91 (8%)	17 18	38, 75, 139, 209	5 (0%)

The worst 5 of 91 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	408	ASP	6.7
1	A	409	LEU	5.9
1	C	411	ASN	5.8
2	B	712	SER	4.8
2	B	492	ASN	4.5

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	SO4	D	802	5/5	0.58	0.14	176,178,179,179	0
3	SO4	D	801	5/5	0.64	0.14	204,204,205,205	0
3	SO4	B	801	5/5	0.67	0.09	167,167,168,170	0
3	SO4	C	703	5/5	0.73	0.08	158,159,160,162	0
3	SO4	C	704	5/5	0.74	0.09	148,150,153,153	0
3	SO4	C	702	5/5	0.79	0.08	126,128,130,133	0
3	SO4	C	701	5/5	0.81	0.09	172,172,175,176	0
4	GOL	A	703	6/6	0.82	0.22	81,87,91,95	0
4	GOL	D	804	6/6	0.82	0.15	80,94,101,101	0
3	SO4	A	701	5/5	0.83	0.12	141,141,144,146	0
4	GOL	B	802	6/6	0.86	0.16	90,96,98,99	0
4	GOL	D	803	6/6	0.88	0.18	84,95,98,100	0
3	SO4	A	702	5/5	0.88	0.08	113,120,120,125	0

6.5 Other polymers [i](#)

There are no such residues in this entry.