



wwPDB X-ray Structure Validation Summary Report ⓘ

May 15, 2020 – 01:58 pm BST

PDB ID : 5JNE
Title : E2-SUMO-Siz1 E3-SUMO-PCNA complex
Authors : Lima, C.D.; Streich Jr., F.C.
Deposited on : 2016-04-29
Resolution : 2.85 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 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

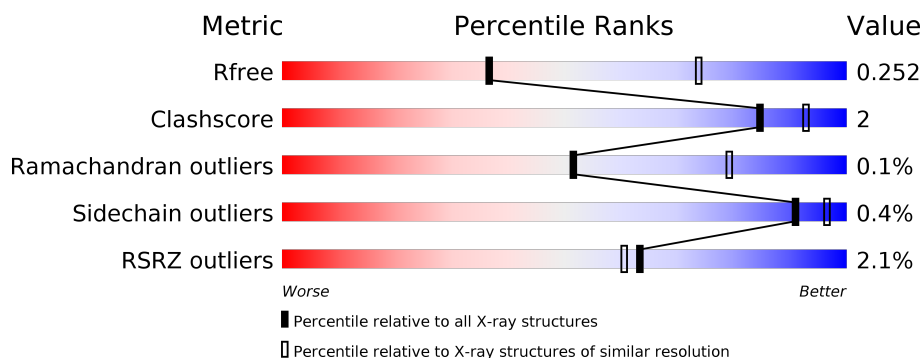
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.85 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	3168 (2.90-2.82)
Clashscore	141614	3438 (2.90-2.82)
Ramachandran outliers	138981	3348 (2.90-2.82)
Sidechain outliers	138945	3351 (2.90-2.82)
RSRZ outliers	127900	3103 (2.90-2.82)

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	367	<div> <div>89%</div> <div>6%</div> <div>.</div> </div>
1	E	367	<div> <div>3%</div> <div>90%</div> <div>5%</div> <div>5%</div> </div>
2	B	160	<div> <div>%</div> <div>88%</div> <div>10%</div> <div>.</div> </div>
2	F	160	<div> <div>86%</div> <div>12%</div> <div>.</div> </div>
3	C	84	<div> <div>%</div> <div>89%</div> <div>5%</div> <div>6%</div> </div>
3	G	84	<div> <div>18%</div> <div>82%</div> <div>10%</div> <div>8%</div> </div>

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Mol	Chain	Length	Quality of chain
4	D	258	<div><div></div><div>2%</div><div>92%</div><div>7%</div><div></div></div>
4	H	258	<div><div></div><div>%</div><div>95%</div><div></div><div></div></div>

2 Entry composition

There are 8 unique types of molecules in this entry. The entry contains 13744 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 E3 SUMO-protein ligase SIZ1, Ubiquitin-like protein SMT3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	351	Total	C	N	O	S	0	0	0
			2837	1810	482	528	17			
1	E	349	Total	C	N	O	S	0	0	1
			2822	1800	479	526	17			

There are 20 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	165	SER	-	expression tag	UNP Q04195
A	166	LEU	-	expression tag	UNP Q04195
A	361	ASP	CYS	engineered mutation	UNP Q04195
A	446	ASP	-	linker	UNP Q04195
A	447	ASP	-	linker	UNP Q04195
A	448	ASP	-	linker	UNP Q04195
A	449	ASP	-	linker	UNP Q04195
A	450	LYS	-	linker	UNP Q04195
A	451	LEU	-	linker	UNP Q04195
A	452	ARG	-	linker	UNP Q04195
E	165	SER	-	expression tag	UNP Q04195
E	166	LEU	-	expression tag	UNP Q04195
E	361	ASP	CYS	engineered mutation	UNP Q04195
E	446	ASP	-	linker	UNP Q04195
E	447	ASP	-	linker	UNP Q04195
E	448	ASP	-	linker	UNP Q04195
E	449	ASP	-	linker	UNP Q04195
E	450	LYS	-	linker	UNP Q04195
E	451	LEU	-	linker	UNP Q04195
E	452	ARG	-	linker	UNP Q04195

- Molecule 2 is a protein called SUMO-conjugating enzyme UBC9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	157	Total	C	N	O	S	0	0	0
			1268	815	219	231	3			
2	F	156	Total	C	N	O	S	0	0	0
			1263	812	218	230	3			

There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	-2	GLY	-	expression tag	UNP P50623
B	-1	SER	-	expression tag	UNP P50623
B	0	HIS	-	expression tag	UNP P50623
B	5	SER	CYS	engineered mutation	UNP P50623
B	129	LYS	ALA	engineered mutation	UNP P50623
B	153	ARG	LYS	engineered mutation	UNP P50623
F	-2	GLY	-	expression tag	UNP P50623
F	-1	SER	-	expression tag	UNP P50623
F	0	HIS	-	expression tag	UNP P50623
F	5	SER	CYS	engineered mutation	UNP P50623
F	129	LYS	ALA	engineered mutation	UNP P50623
F	153	ARG	LYS	engineered mutation	UNP P50623

- Molecule 3 is a protein called Ubiquitin-like protein SMT3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	C	79	Total	C	N	O	S	0	0	0
			636	395	112	126	3			
3	G	77	Total	C	N	O	S	0	0	0
			618	385	108	122	3			

There are 10 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C	15	GLY	-	expression tag	UNP Q12306
C	16	SER	-	expression tag	UNP Q12306
C	17	HIS	-	expression tag	UNP Q12306
C	18	MET	-	expression tag	UNP Q12306
C	19	ARG	LYS	engineered mutation	UNP Q12306
G	15	GLY	-	expression tag	UNP Q12306
G	16	SER	-	expression tag	UNP Q12306
G	17	HIS	-	expression tag	UNP Q12306
G	18	MET	-	expression tag	UNP Q12306
G	19	ARG	LYS	engineered mutation	UNP Q12306

- Molecule 4 is a protein called Proliferating cell nuclear antigen.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	D	254	Total	C	N	O	S	0	0	0
			1967	1252	307	398	10			
4	H	256	Total	C	N	O	S	0	0	0
			1992	1267	310	405	10			

There are 10 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
D	77	ASP	LYS	engineered mutation	UNP P15873
D	81	GLU	CYS	engineered mutation	UNP P15873
D	110	ASP	ARG	engineered mutation	UNP P15873
D	127	GLY	LYS	engineered mutation	UNP P15873
D	164	CYS	LYS	engineered mutation	UNP P15873
H	77	ASP	LYS	engineered mutation	UNP P15873
H	81	GLU	CYS	engineered mutation	UNP P15873
H	110	ASP	ARG	engineered mutation	UNP P15873
H	127	GLY	LYS	engineered mutation	UNP P15873
H	164	CYS	LYS	engineered mutation	UNP P15873

- Molecule 5 is ZINC ION (three-letter code: ZN) (formula: Zn).

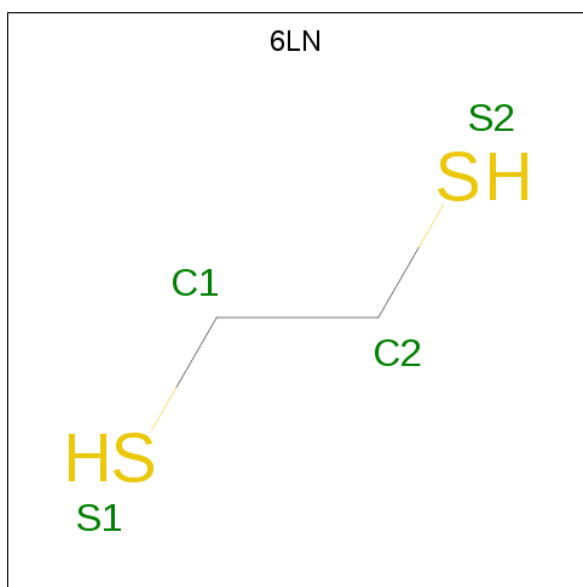
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	1	Total	Zn	0	0
			1	1		
5	E	1	Total	Zn	0	0
			1	1		

- Molecule 6 is GLYCEROL (three-letter code: GOL) (formula: C₃H₈O₃).



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

- Molecule 7 is ethane-1,2-dithiol (three-letter code: 6LN) (formula: C₂H₆S₂).



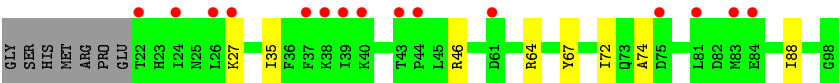
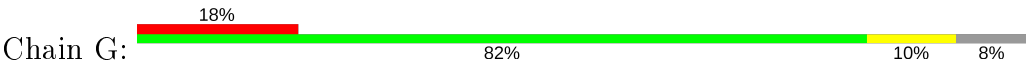
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
7	B	1	Total	C	S	0	0
			4	2	2		
7	F	1	Total	C	S	0	0
			4	2	2		

- Molecule 8 is water.

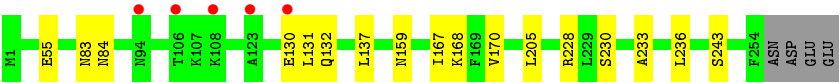
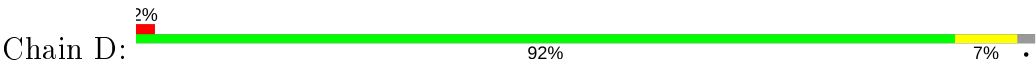
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
8	A	78	Total	O	0	0
			78	78		
8	B	40	Total	O	0	0
			40	40		
8	C	8	Total	O	0	0
			8	8		
8	D	30	Total	O	0	0
			30	30		
8	E	46	Total	O	0	0
			46	46		
8	F	23	Total	O	0	0
			23	23		
8	G	4	Total	O	0	0
			4	4		
8	H	42	Total	O	0	0
			42	42		



● Molecule 3: Ubiquitin-like protein SMT3



● Molecule 4: Proliferating cell nuclear antigen



● Molecule 4: Proliferating cell nuclear antigen



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	93.42Å 205.88Å 142.50Å 90.00° 95.30° 90.00°	Depositor
Resolution (Å)	48.38 – 2.85 48.39 – 2.85	Depositor EDS
% Data completeness (in resolution range)	99.4 (48.38-2.85) 99.2 (48.39-2.85)	Depositor EDS
R_{merge}	0.11	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.74 (at 2.86Å)	Xtriage
Refinement program	PHENIX (1.10_2155: ???)	Depositor
R, R_{free}	0.211 , 0.250 0.212 , 0.252	Depositor DCC
R_{free} test set	3142 reflections (5.06%)	wwPDB-VP
Wilson B-factor (Å ²)	52.3	Xtriage
Anisotropy	0.453	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 42.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.46$, $\langle L^2 \rangle = 0.28$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.92	EDS
Total number of atoms	13744	wwPDB-VP
Average B, all atoms (Å ²)	58.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.06% 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, ZN, 6LN

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	0.24	0/2897	0.41	0/3913
1	E	0.23	0/2881	0.40	0/3890
2	B	0.24	0/1308	0.38	0/1775
2	F	0.24	0/1303	0.37	0/1768
3	C	0.23	0/644	0.41	0/860
3	G	0.23	0/626	0.41	0/837
4	D	0.24	0/1996	0.42	0/2698
4	H	0.24	0/2021	0.42	0/2732
All	All	0.24	0/13676	0.40	0/18473

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	2837	0	2854	14	0
1	E	2822	0	2843	10	0
2	B	1268	0	1249	9	0
2	F	1263	0	1247	12	0
3	C	636	0	626	2	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	G	618	0	608	5	0
4	D	1967	0	1945	11	0
4	H	1992	0	1975	5	0
5	A	1	0	0	0	0
5	E	1	0	0	0	0
6	A	18	0	24	0	0
6	D	18	0	24	0	0
6	E	12	0	16	0	0
6	H	12	0	16	0	0
7	B	4	0	0	0	0
7	F	4	0	0	0	0
8	A	78	0	0	1	0
8	B	40	0	0	0	0
8	C	8	0	0	0	0
8	D	30	0	0	0	0
8	E	46	0	0	0	0
8	F	23	0	0	0	0
8	G	4	0	0	0	0
8	H	42	0	0	0	0
All	All	13744	0	13427	62	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 2.

The worst 5 of 62 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)
4:H:137:LEU:HD13	4:H:167:ILE:HD13	1.83	0.61
4:D:137:LEU:HD13	4:D:167:ILE:HD13	1.82	0.60
2:B:71:LYS:NZ	2:B:99:GLU:OE1	2.33	0.59
4:D:83:ASN:ND2	4:D:84:ASN:H	2.02	0.58
1:E:353:THR:OG1	1:E:354:SER:N	2.36	0.57

There are no symmetry-related clashes.

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	347/367 (95%)	340 (98%)	7 (2%)	0	100	100
1	E	345/367 (94%)	332 (96%)	13 (4%)	0	100	100
2	B	155/160 (97%)	149 (96%)	6 (4%)	0	100	100
2	F	154/160 (96%)	148 (96%)	5 (3%)	1 (1%)	25	53
3	C	77/84 (92%)	73 (95%)	4 (5%)	0	100	100
3	G	75/84 (89%)	72 (96%)	3 (4%)	0	100	100
4	D	252/258 (98%)	237 (94%)	15 (6%)	0	100	100
4	H	254/258 (98%)	243 (96%)	11 (4%)	0	100	100
All	All	1659/1738 (96%)	1594 (96%)	64 (4%)	1 (0%)	51	79

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	F	131	GLU

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	320/336 (95%)	318 (99%)	2 (1%)	86	95
1	E	319/336 (95%)	317 (99%)	2 (1%)	86	95
2	B	137/140 (98%)	137 (100%)	0	100	100
2	F	137/140 (98%)	137 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	C	69/74 (93%)	68 (99%)	1 (1%)	67	86
3	G	67/74 (90%)	67 (100%)	0	100	100
4	D	223/232 (96%)	223 (100%)	0	100	100
4	H	228/232 (98%)	227 (100%)	1 (0%)	91	96
All	All	1500/1564 (96%)	1494 (100%)	6 (0%)	91	96

5 of 6 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
3	C	47	ARG
4	H	172	ASP
1	E	299	PHE
1	A	425	CYS
1	E	452	ARG

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

Mol	Chain	Res	Type
3	G	56	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](#)

Of 14 ligands modelled in this entry, 2 are monoatomic - leaving 12 for Mogul analysis.

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	$\# Z > 2$
6	GOL	A	602	-	5,5,5	0.37	0	5,5,5	0.27	0
7	6LN	F	201	2,4	3,3,3	0.41	0	2,2,2	0.74	0
6	GOL	E	603	-	5,5,5	0.37	0	5,5,5	0.28	0
7	6LN	B	201	2,4	3,3,3	0.40	0	2,2,2	0.70	0
6	GOL	A	603	-	5,5,5	0.37	0	5,5,5	0.27	0
6	GOL	D	303	-	5,5,5	0.37	0	5,5,5	0.28	0
6	GOL	A	604	-	5,5,5	0.36	0	5,5,5	0.29	0
6	GOL	H	301	-	5,5,5	0.36	0	5,5,5	0.22	0
6	GOL	H	302	-	5,5,5	0.37	0	5,5,5	0.25	0
6	GOL	D	302	-	5,5,5	0.36	0	5,5,5	0.24	0
6	GOL	E	602	-	5,5,5	0.37	0	5,5,5	0.27	0
6	GOL	D	301	-	5,5,5	0.37	0	5,5,5	0.28	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
6	GOL	A	602	-	-	2/4/4/4	-
7	6LN	F	201	2,4	-	0/1/1/1	-
6	GOL	E	603	-	-	2/4/4/4	-
7	6LN	B	201	2,4	-	1/1/1/1	-
6	GOL	A	603	-	-	2/4/4/4	-
6	GOL	D	303	-	-	2/4/4/4	-
6	GOL	A	604	-	-	2/4/4/4	-
6	GOL	H	301	-	-	2/4/4/4	-
6	GOL	H	302	-	-	2/4/4/4	-
6	GOL	D	302	-	-	2/4/4/4	-
6	GOL	E	602	-	-	2/4/4/4	-
6	GOL	D	301	-	-	2/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

5 of 21 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
6	A	602	GOL	O1-C1-C2-C3
6	E	603	GOL	O1-C1-C2-C3
7	B	201	6LN	S1-C1-C2-S2
6	A	603	GOL	O1-C1-C2-C3
6	D	303	GOL	O1-C1-C2-C3

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 ⓘ

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	351/367 (95%)	-0.19	0 100 100	24, 46, 81, 95	0
1	E	349/367 (95%)	0.12	11 (3%) 47 42	32, 56, 106, 146	0
2	B	157/160 (98%)	-0.18	1 (0%) 89 89	26, 40, 72, 89	0
2	F	156/160 (97%)	-0.13	0 100 100	35, 50, 83, 96	0
3	C	79/84 (94%)	0.13	1 (1%) 77 76	40, 63, 96, 116	0
3	G	77/84 (91%)	0.91	15 (19%) 1 1	52, 98, 125, 128	0
4	D	254/258 (98%)	0.16	5 (1%) 65 62	37, 66, 104, 131	0
4	H	256/258 (99%)	-0.09	2 (0%) 86 85	26, 52, 87, 119	0
All	All	1679/1738 (96%)	0.01	35 (2%) 63 60	24, 54, 100, 146	0

The worst 5 of 35 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	E	352	THR	4.3
3	G	26	LEU	4.1
3	G	38	LYS	3.9
1	E	341	THR	3.7
3	G	24	ILE	3.5

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. 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
6	GOL	A	602	6/6	0.75	0.26	51,80,87,90	0
6	GOL	D	303	6/6	0.81	0.26	66,75,79,82	0
6	GOL	D	302	6/6	0.85	0.28	74,81,84,93	0
6	GOL	H	302	6/6	0.89	0.20	48,49,54,58	0
7	6LN	F	201	4/4	0.92	0.16	61,67,78,88	0
6	GOL	A	603	6/6	0.92	0.29	42,49,60,71	0
6	GOL	E	603	6/6	0.92	0.23	51,58,65,73	0
6	GOL	D	301	6/6	0.93	0.35	62,67,73,74	0
6	GOL	E	602	6/6	0.94	0.22	44,48,54,67	0
6	GOL	A	604	6/6	0.94	0.35	42,47,56,56	0
7	6LN	B	201	4/4	0.95	0.17	56,57,67,95	0
6	GOL	H	301	6/6	0.95	0.32	57,61,62,66	0
5	ZN	E	601	1/1	0.97	0.10	75,75,75,75	0
5	ZN	A	601	1/1	0.98	0.16	59,59,59,59	0

6.5 Other polymers

There are no such residues in this entry.