



Full wwPDB X-ray Structure Validation Report ⓘ

May 13, 2020 – 04:00 pm BST

PDB ID : 2YMD
Title : Crystal structure of a mutant binding protein (5HTBP-AChBP) in complex with serotonin (5-hydroxytryptamine)
Authors : Kesters, D.; Thompson, A.J.; Brams, M.; Elk, R.v.; Spurny, R.; Geitmann, M.; Villalgordo, J.M.; Guskov, A.; Danielson, U.H.; Lummis, S.C.R.; Smit, A.B.; Ulens, C.
Deposited on : 2012-10-09
Resolution : 1.96 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

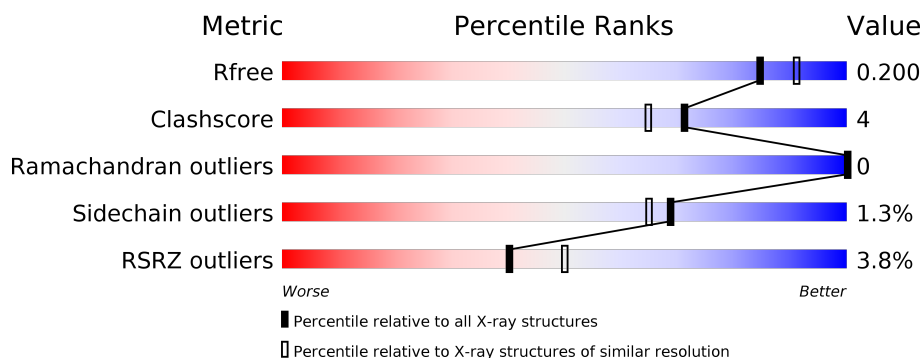
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.96 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	2580 (1.96-1.96)
Clashscore	141614	2705 (1.96-1.96)
Ramachandran outliers	138981	2678 (1.96-1.96)
Sidechain outliers	138945	2678 (1.96-1.96)
RSRZ outliers	127900	2539 (1.96-1.96)

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	212	<div> <div>4%</div> <div> <div></div> <div>92%</div> <div>8%</div> </div> </div>
1	B	212	<div> <div>4%</div> <div> <div></div> <div>91%</div> <div>8%</div> <div>..</div> </div> </div>
1	C	212	<div> <div>4%</div> <div> <div></div> <div>92%</div> <div>7%</div> <div>.</div> </div> </div>
1	D	212	<div> <div>3%</div> <div> <div></div> <div>93%</div> <div>7%</div> </div> </div>
1	E	212	<div> <div>6%</div> <div> <div></div> <div>94%</div> <div>5%</div> <div>.</div> </div> </div>
1	F	212	<div> <div>4%</div> <div> <div></div> <div>90%</div> <div>10%</div> </div> </div>

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Mol	Chain	Length	Quality of chain
1	G	212	
1	H	212	
1	I	212	
1	J	212	

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
3	GOL	A	1214	-	-	X	-
3	GOL	B	1215	-	-	X	-
3	GOL	J	1215	-	-	X	-

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 19801 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 SOLUBLE ACETYLCHOLINE RECEPTOR.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	212	Total	C	N	O	S	0	0	0
			1694	1074	277	334	9			
1	B	210	Total	C	N	O	S	0	0	0
			1672	1056	275	332	9			
1	C	212	Total	C	N	O	S	0	0	0
			1694	1074	277	334	9			
1	D	212	Total	C	N	O	S	0	0	0
			1694	1074	277	334	9			
1	E	212	Total	C	N	O	S	0	0	0
			1694	1074	277	334	9			
1	F	212	Total	C	N	O	S	0	1	0
			1702	1079	280	334	9			
1	G	212	Total	C	N	O	S	0	0	0
			1694	1074	277	334	9			
1	H	205	Total	C	N	O	S	0	0	0
			1640	1039	266	326	9			
1	I	212	Total	C	N	O	S	0	0	0
			1694	1074	277	334	9			
1	J	212	Total	C	N	O	S	0	0	0
			1694	1074	277	334	9			

There are 60 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	41	VAL	ALA	conflict	UNP Q8WSF8
A	53	TRP	TYR	engineered mutation	UNP Q8WSF8
A	92	GLU	SER	conflict	UNP Q8WSF8
A	136	VAL	ALA	conflict	UNP Q8WSF8
A	140	LEU	VAL	conflict	UNP Q8WSF8
A	141	THR	LYS	conflict	UNP Q8WSF8
B	41	VAL	ALA	conflict	UNP Q8WSF8
B	53	TRP	TYR	engineered mutation	UNP Q8WSF8
B	92	GLU	SER	conflict	UNP Q8WSF8

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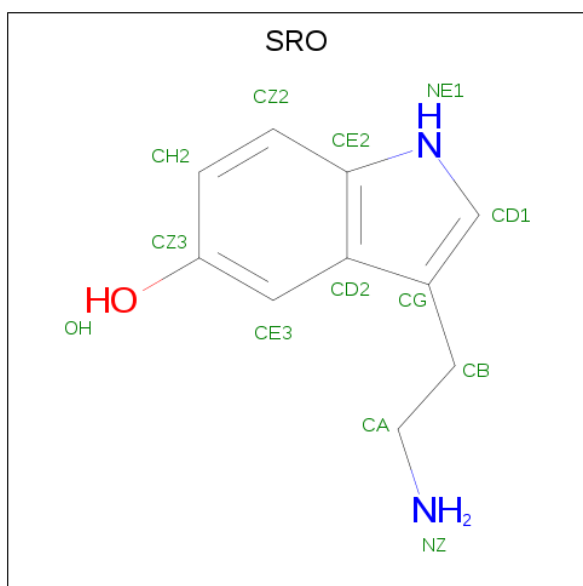
Chain	Residue	Modelled	Actual	Comment	Reference
B	136	VAL	ALA	conflict	UNP Q8WSF8
B	140	LEU	VAL	conflict	UNP Q8WSF8
B	141	THR	LYS	conflict	UNP Q8WSF8
C	41	VAL	ALA	conflict	UNP Q8WSF8
C	53	TRP	TYR	engineered mutation	UNP Q8WSF8
C	92	GLU	SER	conflict	UNP Q8WSF8
C	136	VAL	ALA	conflict	UNP Q8WSF8
C	140	LEU	VAL	conflict	UNP Q8WSF8
C	141	THR	LYS	conflict	UNP Q8WSF8
D	41	VAL	ALA	conflict	UNP Q8WSF8
D	53	TRP	TYR	engineered mutation	UNP Q8WSF8
D	92	GLU	SER	conflict	UNP Q8WSF8
D	136	VAL	ALA	conflict	UNP Q8WSF8
D	140	LEU	VAL	conflict	UNP Q8WSF8
D	141	THR	LYS	conflict	UNP Q8WSF8
E	41	VAL	ALA	conflict	UNP Q8WSF8
E	53	TRP	TYR	engineered mutation	UNP Q8WSF8
E	92	GLU	SER	conflict	UNP Q8WSF8
E	136	VAL	ALA	conflict	UNP Q8WSF8
E	140	LEU	VAL	conflict	UNP Q8WSF8
E	141	THR	LYS	conflict	UNP Q8WSF8
F	41	VAL	ALA	conflict	UNP Q8WSF8
F	53	TRP	TYR	engineered mutation	UNP Q8WSF8
F	92	GLU	SER	conflict	UNP Q8WSF8
F	136	VAL	ALA	conflict	UNP Q8WSF8
F	140	LEU	VAL	conflict	UNP Q8WSF8
F	141	THR	LYS	conflict	UNP Q8WSF8
G	41	VAL	ALA	conflict	UNP Q8WSF8
G	53	TRP	TYR	engineered mutation	UNP Q8WSF8
G	92	GLU	SER	conflict	UNP Q8WSF8
G	136	VAL	ALA	conflict	UNP Q8WSF8
G	140	LEU	VAL	conflict	UNP Q8WSF8
G	141	THR	LYS	conflict	UNP Q8WSF8
H	41	VAL	ALA	conflict	UNP Q8WSF8
H	53	TRP	TYR	engineered mutation	UNP Q8WSF8
H	92	GLU	SER	conflict	UNP Q8WSF8
H	136	VAL	ALA	conflict	UNP Q8WSF8
H	140	LEU	VAL	conflict	UNP Q8WSF8
H	141	THR	LYS	conflict	UNP Q8WSF8
I	41	VAL	ALA	conflict	UNP Q8WSF8
I	53	TRP	TYR	engineered mutation	UNP Q8WSF8
I	92	GLU	SER	conflict	UNP Q8WSF8

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Chain	Residue	Modelled	Actual	Comment	Reference
I	136	VAL	ALA	conflict	UNP Q8WSF8
I	140	LEU	VAL	conflict	UNP Q8WSF8
I	141	THR	LYS	conflict	UNP Q8WSF8
J	41	VAL	ALA	conflict	UNP Q8WSF8
J	53	TRP	TYR	engineered mutation	UNP Q8WSF8
J	92	GLU	SER	conflict	UNP Q8WSF8
J	136	VAL	ALA	conflict	UNP Q8WSF8
J	140	LEU	VAL	conflict	UNP Q8WSF8
J	141	THR	LYS	conflict	UNP Q8WSF8

- Molecule 2 is SEROTONIN (three-letter code: SRO) (formula: $C_{10}H_{12}N_2O$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	C	N	O	0	0
			13	10	2	1		
2	B	1	Total	C	N	O	0	0
			13	10	2	1		
2	C	1	Total	C	N	O	0	0
			13	10	2	1		
2	D	1	Total	C	N	O	0	0
			13	10	2	1		
2	E	1	Total	C	N	O	0	0
			13	10	2	1		
2	F	1	Total	C	N	O	0	0
			13	10	2	1		
2	G	1	Total	C	N	O	0	0
			13	10	2	1		

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	H	1	Total	C	N	O	0	0
			13	10	2	1		
2	I	1	Total	C	N	O	0	0
			13	10	2	1		
2	J	1	Total	C	N	O	0	0
			13	10	2	1		

- Molecule 3 is GLYCEROL (three-letter code: GOL) (formula: $C_3H_8O_3$).



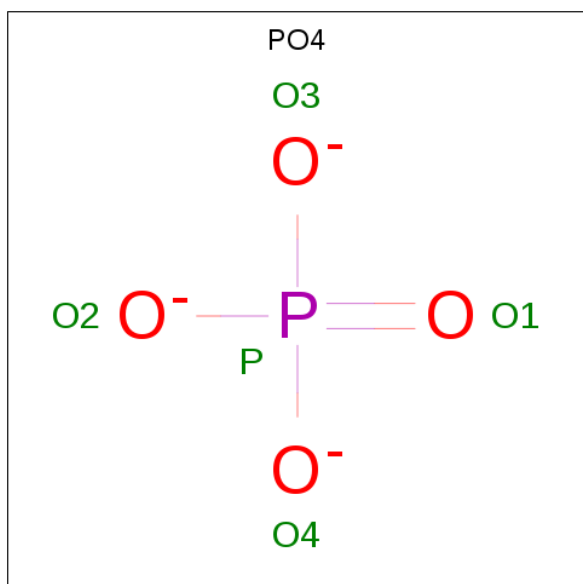
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	C	O	0	0
			6	3	3		
3	B	1	Total	C	O	0	0
			6	3	3		
3	B	1	Total	C	O	0	0
			6	3	3		
3	B	1	Total	C	O	0	0
			6	3	3		
3	C	1	Total	C	O	0	0
			6	3	3		
3	D	1	Total	C	O	0	0
			6	3	3		
3	D	1	Total	C	O	0	0
			6	3	3		
3	D	1	Total	C	O	0	0
			6	3	3		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	E	1	Total	C	O	0	0
			6	3	3		
3	F	1	Total	C	O	0	0
			6	3	3		
3	F	1	Total	C	O	0	0
			6	3	3		
3	F	1	Total	C	O	0	0
			6	3	3		
3	G	1	Total	C	O	0	0
			6	3	3		
3	J	1	Total	C	O	0	0
			6	3	3		

- Molecule 4 is PHOSPHATE ION (three-letter code: PO4) (formula: O₄P).



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

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	F	1	Total	O	P	0	0
			5	4	1		
4	G	1	Total	O	P	0	0
			5	4	1		
4	H	1	Total	O	P	0	0
			5	4	1		
4	I	1	Total	O	P	0	0
			5	4	1		
4	J	1	Total	O	P	0	0
			5	4	1		

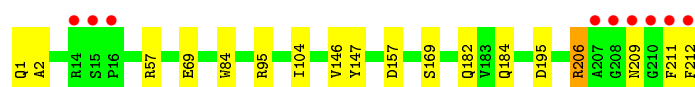
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	303	Total	O	0	0
			303	303		
5	B	298	Total	O	0	0
			298	298		
5	C	281	Total	O	0	0
			281	281		
5	D	285	Total	O	0	0
			285	285		
5	E	225	Total	O	0	0
			225	225		
5	F	272	Total	O	0	0
			272	272		
5	G	242	Total	O	0	0
			242	242		
5	H	259	Total	O	0	0
			259	259		
5	I	271	Total	O	0	0
			271	271		
5	J	229	Total	O	0	0
			229	229		

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: SOLUBLE ACETYLCHOLINE RECEPTOR



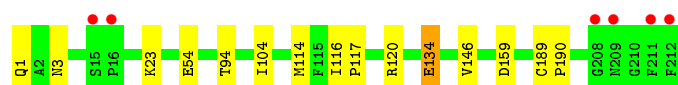
- Molecule 1: SOLUBLE ACETYLCHOLINE RECEPTOR



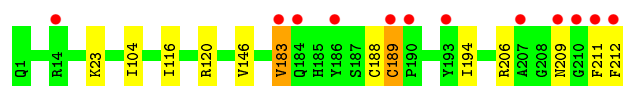
- Molecule 1: SOLUBLE ACETYLCHOLINE RECEPTOR



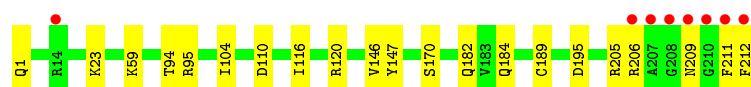
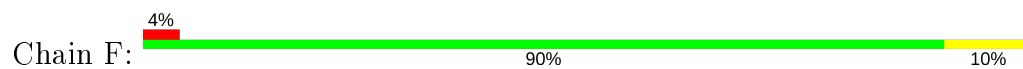
- Molecule 1: SOLUBLE ACETYLCHOLINE RECEPTOR



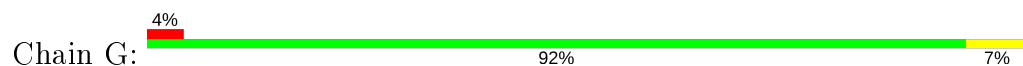
- Molecule 1: SOLUBLE ACETYLCHOLINE RECEPTOR



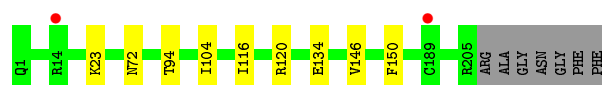
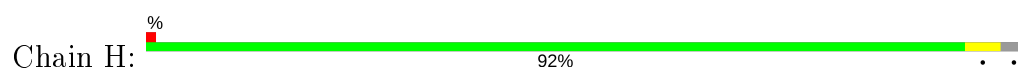
- Molecule 1: SOLUBLE ACETYLCHOLINE RECEPTOR



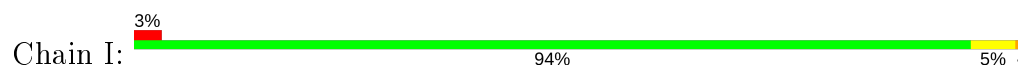
- Molecule 1: SOLUBLE ACETYLCHOLINE RECEPTOR



- Molecule 1: SOLUBLE ACETYLCHOLINE RECEPTOR



- Molecule 1: SOLUBLE ACETYLCHOLINE RECEPTOR



- Molecule 1: SOLUBLE ACETYLCHOLINE RECEPTOR



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	203.56 Å 140.06 Å 126.53 Å 90.00° 99.08° 90.00°	Depositor
Resolution (Å)	46.90 – 1.96 46.90 – 1.96	Depositor EDS
% Data completeness (in resolution range)	95.8 (46.90-1.96) 95.8 (46.90-1.96)	Depositor EDS
R_{merge}	0.01	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.69 (at 1.97 Å)	Xtriage
Refinement program	PHENIX (PHENIX.REFINE)	Depositor
R, R_{free}	0.159 , 0.201 0.164 , 0.200	Depositor DCC
R_{free} test set	237112 reflections (99.04%)	wwPDB-VP
Wilson B-factor (Å ²)	22.3	Xtriage
Anisotropy	0.441	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 51.7	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	0.96	EDS
Total number of atoms	19801	wwPDB-VP
Average B, all atoms (Å ²)	32.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.00% 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, 0.333 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: GOL, PO4, SRO

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	0.37	0/1737	0.57	0/2370
1	B	0.37	0/1713	0.56	0/2338
1	C	0.35	0/1737	0.56	0/2370
1	D	0.35	0/1737	0.55	0/2370
1	E	0.35	0/1737	0.54	0/2370
1	F	0.34	0/1748	0.53	0/2384
1	G	0.33	0/1737	0.54	0/2370
1	H	0.37	0/1681	0.55	0/2296
1	I	0.37	0/1737	0.54	0/2370
1	J	0.37	0/1737	0.56	0/2370
All	All	0.36	0/17301	0.55	0/23608

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	1694	0	1618	18	1
1	B	1672	0	1600	17	0
1	C	1694	0	1618	18	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	D	1694	0	1618	13	0
1	E	1694	0	1618	13	0
1	F	1702	0	1631	20	0
1	G	1694	0	1618	18	0
1	H	1640	0	1570	9	0
1	I	1694	0	1618	14	0
1	J	1694	0	1618	11	0
2	A	13	0	12	1	0
2	B	13	0	12	1	0
2	C	13	0	12	1	0
2	D	13	0	12	1	0
2	E	13	0	12	0	0
2	F	13	0	12	1	0
2	G	13	0	12	1	0
2	H	13	0	12	1	0
2	I	13	0	12	0	0
2	J	13	0	12	1	0
3	A	6	0	8	4	0
3	B	18	0	24	7	0
3	C	6	0	8	0	0
3	D	18	0	24	4	0
3	E	6	0	8	0	0
3	F	18	0	24	4	0
3	G	6	0	8	2	0
3	J	6	0	8	4	0
4	A	5	0	0	0	0
4	B	5	0	0	0	0
4	C	5	0	0	0	0
4	D	5	0	0	1	0
4	E	5	0	0	0	0
4	F	5	0	0	1	0
4	G	5	0	0	0	0
4	H	5	0	0	0	0
4	I	5	0	0	0	0
4	J	5	0	0	0	0
5	A	303	0	0	3	0
5	B	298	0	0	4	0
5	C	281	0	0	2	0
5	D	285	0	0	0	0
5	E	225	0	0	2	0
5	F	272	0	0	5	1
5	G	242	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	H	259	0	0	2	0
5	I	271	0	0	2	0
5	J	229	0	0	1	0
All	All	19801	0	16359	118	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 4.

All (118) 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:B:95:ARG:HE	3:B:1215:GOL:H12	1.29	0.97
5:C:2279:HOH:O	1:D:114:MET:SD	2.44	0.75
1:D:3:ASN:HB2	3:D:1216:GOL:H2	1.70	0.74
1:F:95:ARG:HH21	3:F:1213:GOL:H32	1.55	0.72
1:F:205[A]:ARG:NH2	1:F:209:ASN:O	2.24	0.70
1:B:208:GLY:O	5:B:2285:HOH:O	2.13	0.67
1:G:77:ARG:HD3	1:G:106:VAL:HG22	1.77	0.66
1:A:147:TYR:HE2	3:A:1214:GOL:H32	1.61	0.65
1:A:84:TRP:HE1	3:A:1214:GOL:H12	1.64	0.63
1:F:1:GLN:NE2	5:F:2002:HOH:O	2.32	0.61
1:I:184:GLN:OE1	5:I:2250:HOH:O	2.16	0.61
1:D:23:LYS:NZ	4:D:1217:PO4:O4	2.35	0.60
1:C:206:ARG:HB3	1:I:212:PHE:H	1.66	0.60
1:B:95:ARG:NE	3:B:1215:GOL:H12	2.11	0.59
1:B:95:ARG:HH21	3:B:1215:GOL:H2	1.67	0.59
3:F:1217:GOL:H11	5:F:2109:HOH:O	2.04	0.58
1:H:72:ASN:ND2	5:H:2142:HOH:O	2.37	0.58
1:J:95:ARG:HH21	3:J:1215:GOL:H11	1.68	0.58
1:F:146:VAL:HG11	1:G:104:ILE:HB	1.86	0.57
1:E:211:PHE:HD1	1:G:206:ARG:HB3	1.69	0.57
1:C:95:ARG:HH12	3:D:1215:GOL:C1	2.18	0.57
1:A:84:TRP:NE1	3:A:1214:GOL:H12	2.20	0.57
1:C:95:ARG:HH12	3:D:1215:GOL:H12	1.69	0.57
1:C:209:ASN:OD1	1:C:209:ASN:N	2.37	0.56
1:C:146:VAL:HG11	1:D:104:ILE:HB	1.88	0.56
1:A:146:VAL:HG11	1:B:104:ILE:HB	1.88	0.56
1:E:183:VAL:HG13	1:E:194:ILE:HD13	1.87	0.55
1:E:206:ARG:HB3	1:G:211:PHE:CD2	2.42	0.55
1:F:184:GLN:NE2	5:F:2213:HOH:O	2.40	0.55
1:A:1:GLN:NE2	5:A:2004:HOH:O	2.34	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:146:VAL:HG11	1:E:104:ILE:HB	1.88	0.54
1:F:104:ILE:HB	1:J:146:VAL:HG11	1.89	0.54
1:C:206:ARG:HG3	1:I:211:PHE:CD2	2.42	0.54
1:C:134:GLU:HG2	1:H:134:GLU:CD	2.28	0.54
1:I:205:ARG:NH1	1:I:209:ASN:O	2.39	0.53
1:C:211:PHE:CD2	1:I:206:ARG:HB3	2.42	0.53
2:F:1214:SRO:HE3	1:G:116:ILE:HB	1.90	0.53
1:E:183:VAL:O	5:E:2216:HOH:O	2.19	0.53
1:E:211:PHE:CD1	1:G:206:ARG:HB3	2.44	0.53
1:B:6:ARG:NH1	5:B:2005:HOH:O	2.07	0.52
1:F:95:ARG:NH2	3:F:1213:GOL:H32	2.24	0.52
1:F:147:TYR:CE1	1:G:77:ARG:HG3	2.44	0.52
1:B:94:THR:O	1:C:120:ARG:HD2	2.10	0.52
1:F:184:GLN:HG3	1:F:195:ASP:OD2	2.10	0.52
1:G:146:VAL:HG11	1:H:104:ILE:HB	1.92	0.52
1:A:209:ASN:N	5:A:2266:HOH:O	2.43	0.52
1:A:95:ARG:HH22	3:B:1213:GOL:H2	1.75	0.52
1:B:206:ARG:HH12	1:J:210:GLY:HA3	1.76	0.51
1:F:116:ILE:HB	2:J:1213:SRO:HE3	1.93	0.50
1:F:120:ARG:HD2	1:J:94:THR:O	2.11	0.50
4:F:1216:PO4:O2	1:G:77:ARG:NH2	2.44	0.50
2:G:1213:SRO:HE3	1:H:116:ILE:HB	1.93	0.50
1:D:94:THR:O	1:E:120:ARG:HD2	2.13	0.48
1:H:94:THR:O	1:I:120:ARG:HD2	2.13	0.48
1:I:206:ARG:HA	1:I:211:PHE:CZ	2.49	0.48
1:E:188:CYS:SG	1:E:189:CYS:N	2.87	0.48
1:G:95:ARG:HG3	3:G:1215:GOL:H31	1.95	0.48
1:A:104:ILE:HB	1:E:146:VAL:HG11	1.96	0.48
1:C:190:PRO:HD2	1:C:191:GLU:OE1	2.14	0.47
1:C:25:ASP:OD2	1:D:1:GLN:HG2	2.15	0.47
1:B:23:LYS:HG2	1:B:150:PHE:HB3	1.97	0.46
2:C:1213:SRO:HE3	1:D:116:ILE:HB	1.98	0.46
1:A:184:GLN:HG2	1:A:195:ASP:OD1	2.16	0.46
1:D:54:GLU:O	1:D:117:PRO:HD2	2.15	0.46
1:A:211:PHE:HA	1:F:206:ARG:HB3	1.98	0.46
1:A:57:ARG:NH2	1:A:157:ASP:OD2	2.40	0.46
1:H:23:LYS:HE3	1:H:150:PHE:CD1	2.51	0.46
1:F:170:SER:O	1:F:205[A]:ARG:NH1	2.49	0.45
2:H:1206:SRO:HE3	1:I:116:ILE:HB	1.97	0.45
1:I:205:ARG:HD3	5:I:2229:HOH:O	2.16	0.45
1:J:95:ARG:HH21	3:J:1215:GOL:C1	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:40:LYS:NZ	3:B:1213:GOL:O3	2.44	0.45
1:B:133:GLU:HA	1:J:212:PHE:CZ	2.52	0.45
1:C:94:THR:O	1:D:120:ARG:HD2	2.17	0.45
1:F:59:LYS:HE3	1:F:110:ASP:O	2.17	0.45
1:A:169:SER:OG	1:A:209:ASN:HB2	2.17	0.45
1:G:1:GLN:HG2	1:G:4:LEU:H	1.81	0.45
1:H:146:VAL:HG11	1:I:104:ILE:HB	1.99	0.44
1:A:84:TRP:CZ2	3:A:1214:GOL:H31	2.52	0.44
1:F:95:ARG:NH1	3:G:1215:GOL:O2	2.49	0.44
1:D:134:GLU:HG2	1:G:134:GLU:CD	2.38	0.44
3:B:1215:GOL:H32	5:B:2298:HOH:O	2.18	0.44
1:D:189:CYS:HA	1:D:190:PRO:HD3	1.83	0.43
1:I:25:ASP:OD1	1:J:1:GLN:HG2	2.18	0.43
2:A:1213:SRO:HE3	1:B:116:ILE:HB	2.00	0.43
1:A:206:ARG:CG	1:F:211:PHE:HA	2.49	0.43
5:H:2045:HOH:O	1:I:1:GLN:HB2	2.18	0.43
1:A:1:GLN:HB3	1:A:2:ALA:H	1.56	0.43
1:F:1:GLN:HG3	5:F:2003:HOH:O	2.18	0.43
1:A:206:ARG:HG3	1:F:211:PHE:CD1	2.53	0.43
1:C:134:GLU:HG2	1:H:134:GLU:OE2	2.17	0.43
1:E:206:ARG:HD2	1:G:210:GLY:O	2.18	0.43
1:G:94:THR:O	1:H:120:ARG:HD2	2.17	0.43
1:E:209:ASN:ND2	5:E:2203:HOH:O	2.51	0.42
1:F:94:THR:O	1:G:120:ARG:HD2	2.18	0.42
3:J:1215:GOL:H12	5:J:2082:HOH:O	2.19	0.42
1:B:207:ALA:HB2	1:J:211:PHE:HB3	2.01	0.42
1:B:146:VAL:HG11	1:C:104:ILE:HB	2.01	0.42
3:F:1213:GOL:H2	1:G:40:LYS:NZ	2.35	0.42
2:B:1212:SRO:HE3	1:C:116:ILE:HB	2.01	0.42
1:G:189:CYS:HA	1:G:190:PRO:HD3	1.80	0.42
1:J:190:PRO:HD2	1:J:191:GLU:OE1	2.20	0.42
1:C:189:CYS:HA	1:C:190:PRO:HD3	1.93	0.41
2:D:1214:SRO:HE3	1:E:116:ILE:HB	2.01	0.41
1:B:188:CYS:SG	1:B:189:CYS:N	2.93	0.41
1:G:206:ARG:HA	1:G:211:PHE:CE2	2.55	0.41
1:A:182:GLN:HG3	1:A:195:ASP:OD1	2.21	0.41
1:B:6:ARG:HD3	5:B:2007:HOH:O	2.20	0.41
1:D:3:ASN:H	3:D:1216:GOL:H12	1.85	0.41
5:A:2162:HOH:O	1:E:23:LYS:NZ	2.53	0.41
1:B:48:VAL:HG21	1:B:125:CYS:SG	2.61	0.41
1:A:95:ARG:HH22	3:B:1213:GOL:H32	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:190:PRO:HD2	1:I:191:GLU:OE1	2.21	0.41
1:J:59:LYS:HA	1:J:112:SER:HA	2.04	0.40
1:F:1:GLN:HB2	5:F:2001:HOH:O	2.22	0.40
1:C:59:LYS:HD3	5:C:2125:HOH:O	2.22	0.40
1:C:211:PHE:HD2	1:I:206:ARG:HB3	1.83	0.40
1:J:95:ARG:NH2	3:J:1215:GOL:H11	2.33	0.40

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:A:69:GLU:OE1	5:F:2007:HOH:O[3_555]	2.13	0.07

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	210/212 (99%)	202 (96%)	8 (4%)	0	100	100
1	B	208/212 (98%)	203 (98%)	5 (2%)	0	100	100
1	C	210/212 (99%)	205 (98%)	5 (2%)	0	100	100
1	D	210/212 (99%)	203 (97%)	7 (3%)	0	100	100
1	E	210/212 (99%)	208 (99%)	2 (1%)	0	100	100
1	F	211/212 (100%)	208 (99%)	3 (1%)	0	100	100
1	G	210/212 (99%)	207 (99%)	3 (1%)	0	100	100
1	H	203/212 (96%)	200 (98%)	3 (2%)	0	100	100
1	I	210/212 (99%)	208 (99%)	2 (1%)	0	100	100
1	J	210/212 (99%)	204 (97%)	6 (3%)	0	100	100
All	All	2092/2120 (99%)	2048 (98%)	44 (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	192/192 (100%)	190 (99%)	2 (1%)	76	74
1	B	190/192 (99%)	187 (98%)	3 (2%)	62	58
1	C	192/192 (100%)	189 (98%)	3 (2%)	62	58
1	D	192/192 (100%)	190 (99%)	2 (1%)	76	74
1	E	192/192 (100%)	189 (98%)	3 (2%)	62	58
1	F	193/192 (100%)	189 (98%)	4 (2%)	53	46
1	G	192/192 (100%)	188 (98%)	4 (2%)	53	46
1	H	188/192 (98%)	188 (100%)	0	100	100
1	I	192/192 (100%)	190 (99%)	2 (1%)	76	74
1	J	192/192 (100%)	191 (100%)	1 (0%)	88	88
All	All	1915/1920 (100%)	1891 (99%)	24 (1%)	69	65

All (24) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	206	ARG
1	A	212	PHE
1	B	23	LYS
1	B	206	ARG
1	B	209	ASN
1	C	206	ARG
1	C	209	ASN
1	C	212	PHE
1	D	134	GLU
1	D	159	ASP
1	E	183	VAL
1	E	189	CYS
1	E	212	PHE
1	F	23	LYS

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Mol	Chain	Res	Type
1	F	182	GLN
1	F	189	CYS
1	F	212	PHE
1	G	1	GLN
1	G	77	ARG
1	G	189	CYS
1	G	212	PHE
1	I	209	ASN
1	I	212	PHE
1	J	209	ASN

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (5) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	182	GLN
1	B	209	ASN
1	E	209	ASN
1	G	55	GLN
1	J	209	ASN

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](#)

34 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	SRO	I	1213	-	12,14,14	0.96	0	12,19,19	0.65	0
3	GOL	F	1217	-	5,5,5	0.40	0	5,5,5	0.40	0
3	GOL	D	1213	-	5,5,5	0.36	0	5,5,5	0.49	0
4	PO4	G	1214	-	4,4,4	0.94	0	6,6,6	0.51	0
3	GOL	F	1213	-	5,5,5	0.35	0	5,5,5	0.44	0
2	SRO	C	1213	-	12,14,14	0.88	0	12,19,19	0.75	0
3	GOL	C	1214	-	5,5,5	0.38	0	5,5,5	0.62	0
3	GOL	A	1214	-	5,5,5	0.43	0	5,5,5	0.99	0
4	PO4	A	1215	-	4,4,4	0.88	0	6,6,6	0.66	0
2	SRO	D	1214	-	12,14,14	0.94	0	12,19,19	0.93	0
3	GOL	D	1216	-	5,5,5	0.35	0	5,5,5	0.38	0
4	PO4	F	1216	-	4,4,4	0.94	0	6,6,6	0.54	0
4	PO4	E	1215	-	4,4,4	0.98	0	6,6,6	0.41	0
2	SRO	G	1213	-	12,14,14	0.97	0	12,19,19	0.76	0
3	GOL	E	1214	-	5,5,5	0.36	0	5,5,5	0.35	0
4	PO4	C	1215	-	4,4,4	0.97	0	6,6,6	0.30	0
3	GOL	G	1215	-	5,5,5	0.41	0	5,5,5	0.18	0
2	SRO	H	1206	-	12,14,14	0.95	0	12,19,19	0.89	1 (8%)
4	PO4	I	1214	-	4,4,4	0.91	0	6,6,6	0.56	0
3	GOL	J	1215	-	5,5,5	0.35	0	5,5,5	0.38	0
2	SRO	J	1213	-	12,14,14	0.91	0	12,19,19	0.74	0
3	GOL	B	1211	-	5,5,5	0.33	0	5,5,5	0.28	0
3	GOL	D	1215	-	5,5,5	0.32	0	5,5,5	0.42	0
3	GOL	B	1215	-	5,5,5	0.37	0	5,5,5	0.68	0
4	PO4	H	1207	-	4,4,4	1.02	0	6,6,6	0.50	0
3	GOL	B	1213	-	5,5,5	0.36	0	5,5,5	0.42	0
2	SRO	B	1212	-	12,14,14	0.99	0	12,19,19	0.83	0
2	SRO	E	1213	-	12,14,14	0.96	0	12,19,19	0.58	0
2	SRO	A	1213	-	12,14,14	0.98	0	12,19,19	1.00	1 (8%)
4	PO4	D	1217	-	4,4,4	0.99	0	6,6,6	0.51	0
3	GOL	F	1215	-	5,5,5	0.36	0	5,5,5	0.43	0
2	SRO	F	1214	-	12,14,14	0.93	0	12,19,19	0.53	0
4	PO4	J	1214	-	4,4,4	1.02	0	6,6,6	0.64	0
4	PO4	B	1214	-	4,4,4	1.02	0	6,6,6	0.36	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	SRO	I	1213	-	-	1/3/3/3	0/2/2/2
3	GOL	F	1217	-	-	4/4/4/4	-
3	GOL	D	1213	-	-	0/4/4/4	-
3	GOL	F	1213	-	-	0/4/4/4	-
2	SRO	C	1213	-	-	1/3/3/3	0/2/2/2
3	GOL	C	1214	-	-	2/4/4/4	-
3	GOL	A	1214	-	-	0/4/4/4	-
2	SRO	D	1214	-	-	1/3/3/3	0/2/2/2
3	GOL	D	1216	-	-	2/4/4/4	-
2	SRO	G	1213	-	-	1/3/3/3	0/2/2/2
3	GOL	E	1214	-	-	4/4/4/4	-
3	GOL	G	1215	-	-	4/4/4/4	-
2	SRO	H	1206	-	-	2/3/3/3	0/2/2/2
3	GOL	J	1215	-	-	4/4/4/4	-
2	SRO	J	1213	-	-	1/3/3/3	0/2/2/2
3	GOL	B	1211	-	-	2/4/4/4	-
3	GOL	D	1215	-	-	0/4/4/4	-
3	GOL	B	1215	-	-	4/4/4/4	-
3	GOL	B	1213	-	-	4/4/4/4	-
2	SRO	B	1212	-	-	1/3/3/3	0/2/2/2
2	SRO	E	1213	-	-	0/3/3/3	0/2/2/2
2	SRO	A	1213	-	-	1/3/3/3	0/2/2/2
3	GOL	F	1215	-	-	0/4/4/4	-
2	SRO	F	1214	-	-	1/3/3/3	0/2/2/2

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	H	1206	SRO	CA-CB-CG	2.19	117.93	112.93
2	A	1213	SRO	CA-CB-CG	2.17	117.88	112.93

There are no chirality outliers.

All (40) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	I	1213	SRO	CA-CB-CG-CD2
3	F	1217	GOL	C1-C2-C3-O3

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Mol	Chain	Res	Type	Atoms
3	C	1214	GOL	C1-C2-C3-O3
3	D	1216	GOL	O1-C1-C2-O2
3	D	1216	GOL	O1-C1-C2-C3
3	G	1215	GOL	C1-C2-C3-O3
3	B	1211	GOL	C1-C2-C3-O3
3	B	1215	GOL	O1-C1-C2-C3
3	B	1215	GOL	C1-C2-C3-O3
3	B	1213	GOL	O1-C1-C2-C3
3	B	1213	GOL	C1-C2-C3-O3
3	B	1215	GOL	O1-C1-C2-O2
3	E	1214	GOL	C1-C2-C3-O3
3	G	1215	GOL	O1-C1-C2-C3
3	C	1214	GOL	O2-C2-C3-O3
3	G	1215	GOL	O2-C2-C3-O3
3	B	1211	GOL	O2-C2-C3-O3
3	B	1215	GOL	O2-C2-C3-O3
3	B	1213	GOL	O1-C1-C2-O2
3	B	1213	GOL	O2-C2-C3-O3
3	F	1217	GOL	O2-C2-C3-O3
3	G	1215	GOL	O1-C1-C2-O2
2	C	1213	SRO	CA-CB-CG-CD2
2	D	1214	SRO	CA-CB-CG-CD2
2	J	1213	SRO	CA-CB-CG-CD2
2	B	1212	SRO	CA-CB-CG-CD2
2	F	1214	SRO	CA-CB-CG-CD2
3	E	1214	GOL	O1-C1-C2-C3
2	G	1213	SRO	NZ-CA-CB-CG
3	E	1214	GOL	O2-C2-C3-O3
3	F	1217	GOL	O1-C1-C2-O2
3	J	1215	GOL	O2-C2-C3-O3
2	A	1213	SRO	CA-CB-CG-CD2
2	H	1206	SRO	NZ-CA-CB-CG
3	F	1217	GOL	O1-C1-C2-C3
3	J	1215	GOL	O1-C1-C2-C3
3	J	1215	GOL	O1-C1-C2-O2
3	E	1214	GOL	O1-C1-C2-O2
2	H	1206	SRO	CA-CB-CG-CD2
3	J	1215	GOL	C1-C2-C3-O3

There are no ring outliers.

19 monomers are involved in 35 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	F	1217	GOL	1	0
3	F	1213	GOL	3	0
2	C	1213	SRO	1	0
3	A	1214	GOL	4	0
2	D	1214	SRO	1	0
3	D	1216	GOL	2	0
4	F	1216	PO4	1	0
2	G	1213	SRO	1	0
3	G	1215	GOL	2	0
2	H	1206	SRO	1	0
3	J	1215	GOL	4	0
2	J	1213	SRO	1	0
3	D	1215	GOL	2	0
3	B	1215	GOL	4	0
3	B	1213	GOL	3	0
2	B	1212	SRO	1	0
2	A	1213	SRO	1	0
4	D	1217	PO4	1	0
2	F	1214	SRO	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	212/212 (100%)	-0.27	9 (4%)	36	45	15, 24, 64, 124	0
1	B	210/212 (99%)	-0.35	8 (3%)	40	50	16, 24, 66, 99	0
1	C	212/212 (100%)	-0.36	9 (4%)	36	45	17, 25, 67, 112	0
1	D	212/212 (100%)	-0.31	6 (2%)	53	62	16, 24, 68, 86	0
1	E	212/212 (100%)	-0.31	12 (5%)	23	32	16, 26, 87, 106	0
1	F	212/212 (100%)	-0.17	8 (3%)	40	50	18, 28, 73, 122	0
1	G	212/212 (100%)	-0.30	8 (3%)	40	50	17, 28, 73, 103	0
1	H	205/212 (96%)	-0.43	2 (0%)	82	87	17, 24, 60, 78	0
1	I	212/212 (100%)	-0.44	7 (3%)	46	56	16, 25, 65, 100	0
1	J	212/212 (100%)	-0.32	12 (5%)	23	32	17, 25, 69, 104	0
All	All	2111/2120 (99%)	-0.33	81 (3%)	40	50	15, 26, 71, 124	0

All (81) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	210	GLY	8.1
1	A	211	PHE	7.1
1	F	211	PHE	7.1
1	C	212	PHE	6.1
1	G	207	ALA	5.7
1	G	211	PHE	5.5
1	A	209	ASN	5.5
1	F	208	GLY	5.3
1	F	207	ALA	5.3
1	J	212	PHE	5.1
1	C	207	ALA	5.1
1	A	208	GLY	5.1
1	A	207	ALA	5.0

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Mol	Chain	Res	Type	RSRZ
1	G	209	ASN	4.8
1	C	209	ASN	4.7
1	F	209	ASN	4.7
1	F	210	GLY	4.6
1	A	212	PHE	4.5
1	D	211	PHE	4.3
1	I	211	PHE	4.2
1	C	210	GLY	4.1
1	C	211	PHE	4.1
1	D	212	PHE	4.1
1	F	212	PHE	4.1
1	G	212	PHE	4.1
1	A	15	SER	4.0
1	G	15	SER	4.0
1	G	210	GLY	4.0
1	A	14	ARG	3.9
1	C	208	GLY	3.9
1	I	209	ASN	3.8
1	E	212	PHE	3.7
1	J	14	ARG	3.7
1	D	208	GLY	3.6
1	D	15	SER	3.6
1	D	209	ASN	3.6
1	E	184	GLN	3.6
1	I	212	PHE	3.5
1	I	208	GLY	3.4
1	G	14	ARG	3.4
1	J	190	PRO	3.3
1	J	211	PHE	3.3
1	J	15	SER	3.3
1	B	209	ASN	3.2
1	E	189	CYS	3.2
1	E	14	ARG	3.1
1	J	16	PRO	3.0
1	I	210	GLY	3.0
1	H	14	ARG	3.0
1	F	206	ARG	2.9
1	I	207	ALA	2.9
1	E	207	ALA	2.8
1	D	16	PRO	2.8
1	B	207	ALA	2.7
1	J	184	GLN	2.7

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Mol	Chain	Res	Type	RSRZ
1	E	193	TYR	2.6
1	B	184	GLN	2.5
1	J	13	ASN	2.5
1	J	209	ASN	2.5
1	A	16	PRO	2.4
1	J	210	GLY	2.4
1	E	210	GLY	2.3
1	G	208	GLY	2.3
1	E	190	PRO	2.3
1	I	206	ARG	2.3
1	C	206	ARG	2.3
1	E	211	PHE	2.2
1	E	183	VAL	2.2
1	E	209	ASN	2.2
1	C	14	ARG	2.2
1	E	186	TYR	2.2
1	J	24	ASP	2.2
1	J	183	VAL	2.1
1	B	189	CYS	2.1
1	B	210	GLY	2.1
1	B	15	SER	2.1
1	F	14	ARG	2.0
1	C	16	PRO	2.0
1	B	186	TYR	2.0
1	B	206	ARG	2.0
1	H	189	CYS	2.0

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
3	GOL	G	1215	6/6	0.80	0.20	43,58,65,68	0
3	GOL	D	1216	6/6	0.81	0.19	43,62,72,74	0
3	GOL	D	1215	6/6	0.81	0.24	57,59,69,70	0
3	GOL	J	1215	6/6	0.85	0.14	30,60,64,64	0
3	GOL	A	1214	6/6	0.85	0.15	33,39,45,46	0
3	GOL	B	1215	6/6	0.87	0.16	23,46,56,69	0
3	GOL	F	1217	6/6	0.89	0.22	64,69,72,78	0
2	SRO	E	1213	13/13	0.91	0.11	25,38,48,48	0
2	SRO	G	1213	13/13	0.92	0.14	26,34,43,44	0
3	GOL	D	1213	6/6	0.93	0.15	27,46,56,67	0
3	GOL	B	1213	6/6	0.93	0.18	36,47,58,73	0
3	GOL	C	1214	6/6	0.93	0.14	34,57,71,77	0
3	GOL	E	1214	6/6	0.94	0.16	43,50,56,66	0
2	SRO	J	1213	13/13	0.94	0.09	24,30,39,41	0
2	SRO	I	1213	13/13	0.94	0.11	22,32,37,39	0
2	SRO	A	1213	13/13	0.94	0.10	18,23,26,29	0
3	GOL	F	1215	6/6	0.94	0.11	44,56,57,58	0
2	SRO	F	1214	13/13	0.94	0.10	27,31,39,44	0
2	SRO	B	1212	13/13	0.95	0.10	21,28,38,40	0
3	GOL	B	1211	6/6	0.95	0.12	32,43,55,65	0
2	SRO	H	1206	13/13	0.95	0.13	21,31,38,41	0
3	GOL	F	1213	6/6	0.95	0.12	25,56,62,63	0
4	PO4	A	1215	5/5	0.95	0.14	62,65,66,68	0
2	SRO	C	1213	13/13	0.96	0.08	20,29,32,35	0
2	SRO	D	1214	13/13	0.96	0.07	18,25,29,31	0
4	PO4	G	1214	5/5	0.97	0.10	50,54,59,59	0
4	PO4	E	1215	5/5	0.98	0.09	43,44,53,61	0
4	PO4	F	1216	5/5	0.98	0.10	38,47,57,57	0
4	PO4	J	1214	5/5	0.98	0.12	45,48,53,61	0
4	PO4	D	1217	5/5	0.99	0.10	44,46,50,62	0
4	PO4	C	1215	5/5	0.99	0.12	39,45,53,55	0
4	PO4	H	1207	5/5	0.99	0.10	37,40,55,58	0
4	PO4	I	1214	5/5	0.99	0.12	37,44,53,53	0
4	PO4	B	1214	5/5	0.99	0.10	41,42,46,48	0

6.5 Other polymers ⓘ

There are no such residues in this entry.