



Full wwPDB X-ray Structure Validation Report ⓘ

Aug 21, 2020 – 06:41 AM BST

PDB ID : 5C80
Title : X-ray structure uridine phosphorylase from *Vibrio cholerae* in complex with uridine at 2.24 Å resolution
Authors : Prokofev, I.I.; Lashkov, A.A.; Gabdoulkhakov, A.G.; Betzel, C.; Mikhailov, A.M.
Deposited on : 2015-06-25
Resolution : 2.24 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 : 2.13.1
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) : 2.13.1

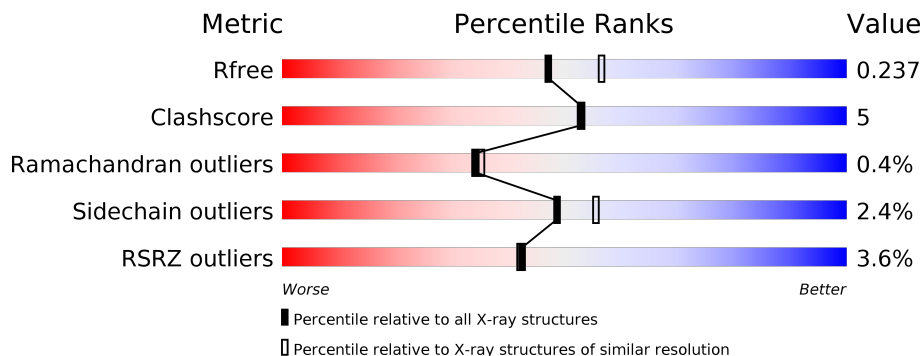
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.24 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	2391 (2.26-2.22)
Clashscore	141614	2539 (2.26-2.22)
Ramachandran outliers	138981	2489 (2.26-2.22)
Sidechain outliers	138945	2490 (2.26-2.22)
RSRZ outliers	127900	2353 (2.26-2.22)

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	253	 4% 83% 15% ..
1	B	253	 4% 90% 9%
1	C	253	 3% 86% 13% .
1	D	253	 4% 89% 9% ..
1	E	253	 4% 87% 11% ..
1	F	253	 3% 88% 10% ..

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	TRS	C	302[A]	-	X	-	-
3	TRS	F	303[A]	-	X	-	-
3	TRS	F	303[B]	-	X	-	-

2 Entry composition [i](#)

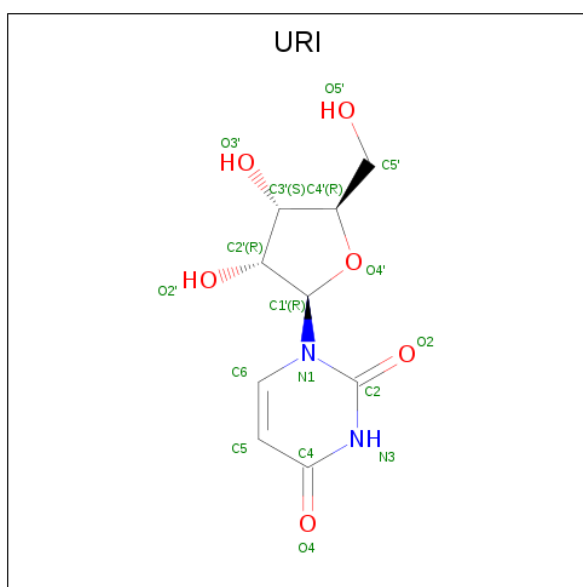
There are 8 unique types of molecules in this entry. The entry contains 12408 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 Uridine phosphorylase.

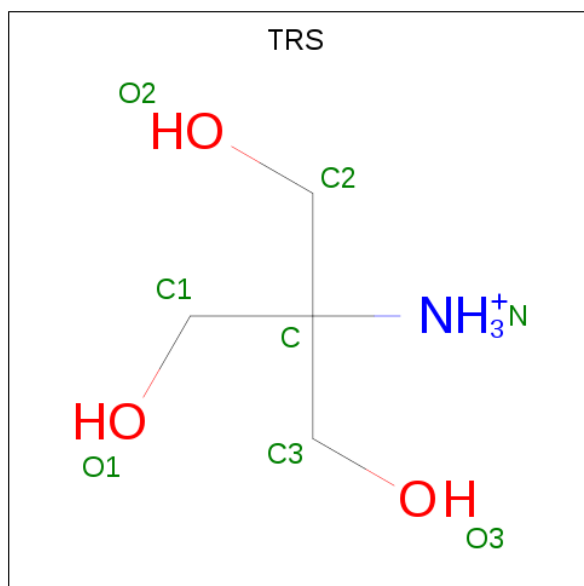
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	251	Total 1893	C 1186	N 330	O 364	S 13	0	2	0
1	B	252	Total 1886	C 1181	N 328	O 364	S 13	0	0	0
1	C	251	Total 1882	C 1179	N 327	O 362	S 14	0	1	0
1	D	249	Total 1880	C 1180	N 327	O 359	S 14	0	3	0
1	E	251	Total 1879	C 1177	N 327	O 362	S 13	0	0	0
1	F	251	Total 1897	C 1188	N 333	O 363	S 13	0	2	0

- Molecule 2 is URIDINE (three-letter code: URI) (formula: C₉H₁₂N₂O₆).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	C	N	O	0	0
			17	9	2	6		
2	B	1	Total	C	N	O	0	0
			17	9	2	6		
2	C	1	Total	C	N	O	0	0
			17	9	2	6		
2	D	1	Total	C	N	O	0	0
			17	9	2	6		
2	E	1	Total	C	N	O	0	0
			17	9	2	6		
2	F	1	Total	C	N	O	0	0
			17	9	2	6		

- Molecule 3 is 2-AMINO-2-HYDROXYMETHYL-PROPANE-1,3-DIOL (three-letter code: TRS) (formula: C₄H₁₂NO₃).



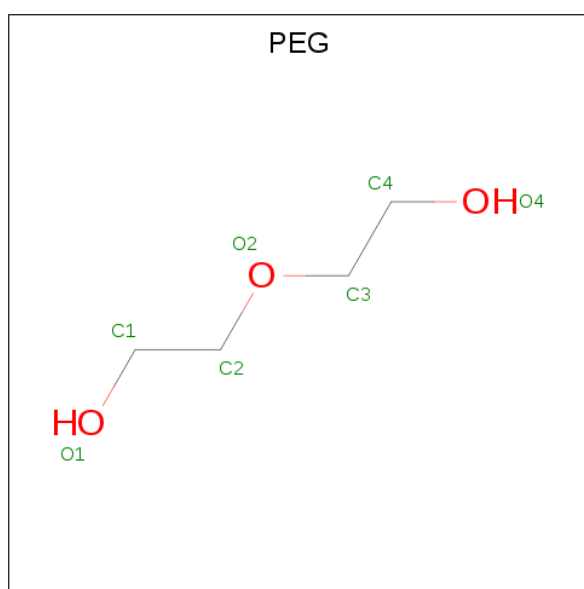
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	A	1	Total	C	N	O	0	1
			16	8	2	6		
3	B	1	Total	C	N	O	0	1
			16	8	2	6		
3	C	1	Total	C	N	O	0	1
			16	8	2	6		
3	D	1	Total	C	N	O	0	1
			16	8	2	6		
3	D	1	Total	C	N	O	0	0
			8	4	1	3		

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	E	1	Total	C	N	O	0	1
			16	8	2	6		
3	F	1	Total	C	N	O	0	0
			8	4	1	3		
3	F	1	Total	C	N	O	0	1
			16	8	2	6		
3	F	1	Total	C	N	O	0	0
			8	4	1	3		

- Molecule 4 is DI(HYDROXYETHYL)ETHER (three-letter code: PEG) (formula: C₄H₁₀O₃).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	A	1	Total	C	O	0	0
			7	4	3		
4	B	1	Total	C	O	0	0
			7	4	3		
4	C	1	Total	C	O	0	0
			7	4	3		

- Molecule 5 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

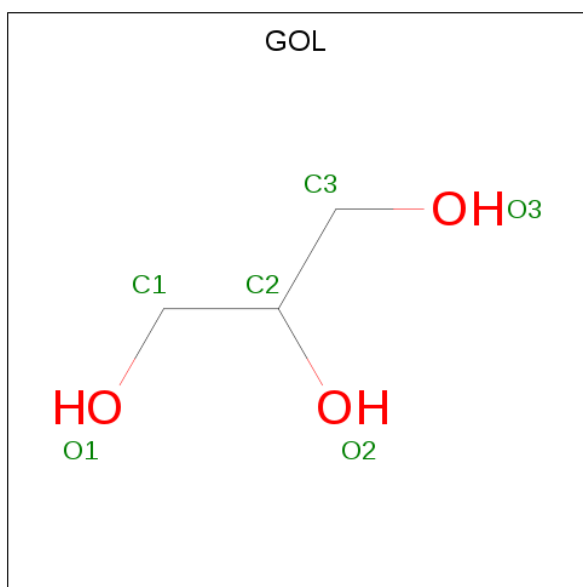
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	B	1	Total	Cl	0	0
			1	1		
5	A	2	Total	Cl	0	0
			2	2		

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	D	1	Total Cl 1 1	0	0
5	C	1	Total Cl 1 1	0	0
5	F	1	Total Cl 1 1	0	0

- Molecule 6 is GLYCEROL (three-letter code: GOL) (formula: $C_3H_8O_3$).



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

- Molecule 7 is SODIUM ION (three-letter code: NA) (formula: Na).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	B	1	Total Na 1 1	0	0
7	F	1	Total Na 1 1	0	0

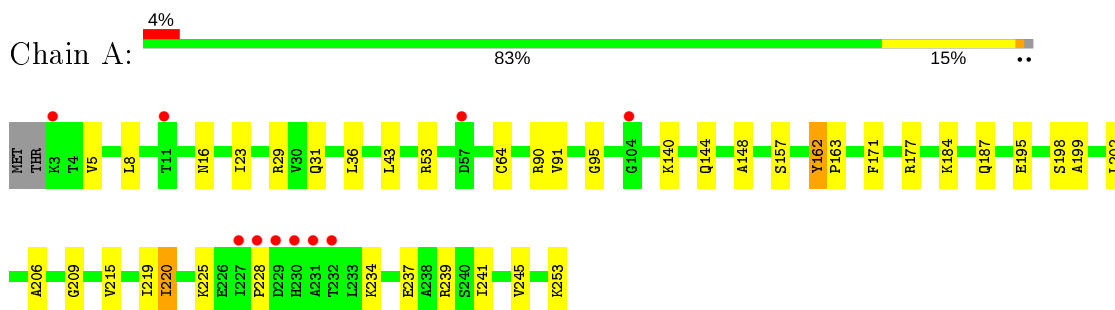
- Molecule 8 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
8	A	136	Total 136	O 136	0	0
8	B	141	Total 141	O 141	0	0
8	C	129	Total 129	O 129	0	0
8	D	134	Total 134	O 134	0	0
8	E	134	Total 134	O 134	0	0
8	F	148	Total 148	O 148	0	0

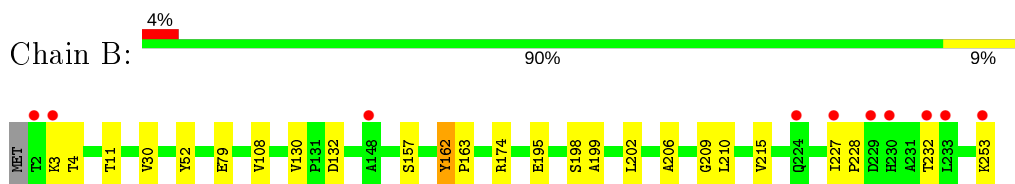
3 Residue-property plots [i](#)

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.

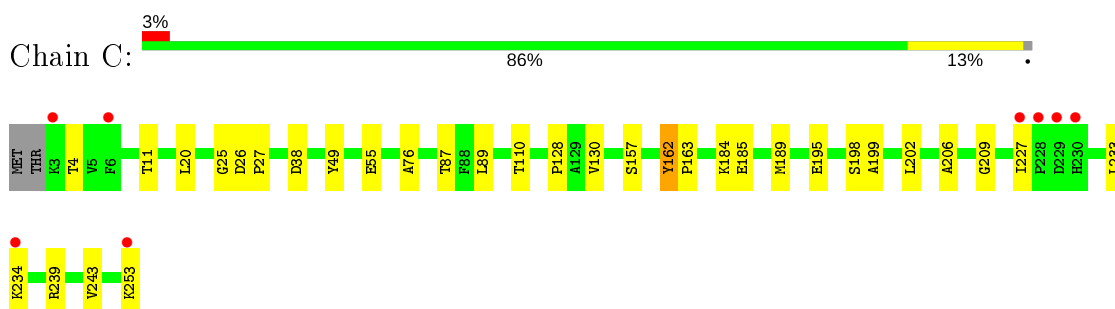
- Molecule 1: Uridine phosphorylase



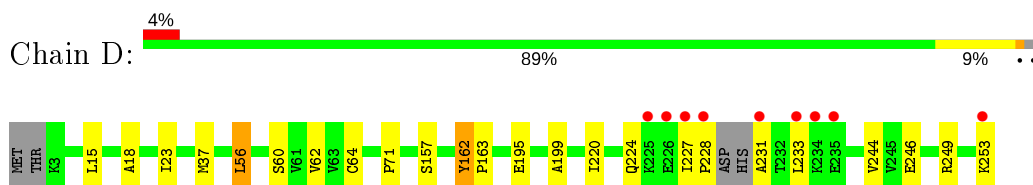
- Molecule 1: Uridine phosphorylase



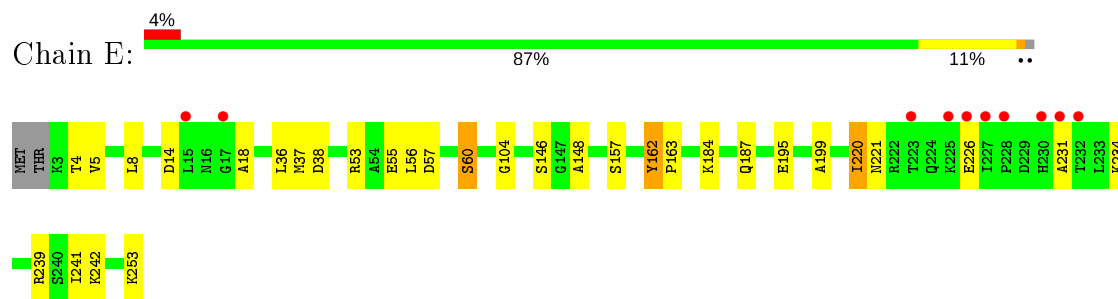
- Molecule 1: Uridine phosphorylase



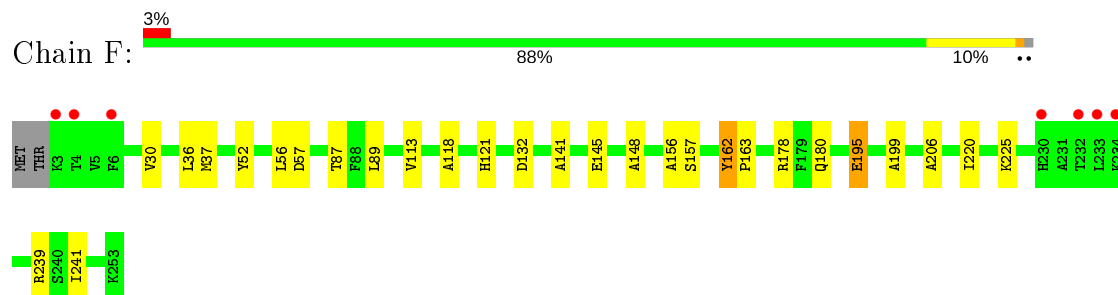
- Molecule 1: Uridine phosphorylase



- Molecule 1: Uridine phosphorylase



- Molecule 1: Uridine phosphorylase



4 Data and refinement statistics

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	61.26Å 73.11Å 83.14Å 71.81° 77.19° 85.69°	Depositor
Resolution (Å)	45.47 – 2.24 45.26 – 2.24	Depositor EDS
% Data completeness (in resolution range)	90.9 (45.47-2.24) 90.9 (45.26-2.24)	Depositor EDS
R_{merge}	0.06	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.15 (at 2.24Å)	Xtrriage
Refinement program	REFMAC 5.7.0032	Depositor
R, R_{free}	0.168 , 0.237 0.169 , 0.237	Depositor DCC
R_{free} test set	2849 reflections (4.90%)	wwPDB-VP
Wilson B-factor (Å ²)	27.8	Xtrriage
Anisotropy	0.065	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.40 , 67.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.34$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	12408	wwPDB-VP
Average B, all atoms (Å ²)	30.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.37% 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, CL, NA, URI, TRS, PEG

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	0.47	0/1930	0.68	0/2615
1	B	0.49	0/1917	0.65	0/2599
1	C	0.49	0/1916	0.69	0/2597
1	D	0.49	0/1916	0.63	0/2594
1	E	0.46	0/1910	0.63	0/2589
1	F	0.50	0/1932	0.66	0/2618
All	All	0.48	0/11521	0.66	0/15612

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	1893	0	1902	30	0
1	B	1886	0	1890	13	0
1	C	1882	0	1888	19	0
1	D	1880	0	1895	14	0
1	E	1879	0	1883	14	0
1	F	1897	0	1902	18	0
2	A	17	0	12	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	B	17	0	12	1	0
2	C	17	0	12	1	0
2	D	17	0	12	1	0
2	E	17	0	12	1	0
2	F	17	0	12	1	0
3	A	16	0	24	3	0
3	B	16	0	24	5	0
3	C	16	0	24	1	0
3	D	24	0	36	2	0
3	E	16	0	24	3	0
3	F	32	0	48	6	0
4	A	7	0	10	1	0
4	B	7	0	10	2	0
4	C	7	0	10	2	0
5	A	2	0	0	0	0
5	B	1	0	0	0	0
5	C	1	0	0	0	0
5	D	1	0	0	0	0
5	F	1	0	0	0	0
6	B	6	0	8	0	0
6	D	6	0	8	0	0
6	F	6	0	8	0	0
7	B	1	0	0	0	0
7	F	1	0	0	0	0
8	A	136	0	0	4	0
8	B	141	0	0	3	0
8	C	129	0	0	4	0
8	D	134	0	0	1	0
8	E	134	0	0	7	0
8	F	148	0	0	6	0
All	All	12408	0	11666	125	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 5.

All (125) 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)
3:A:302[B]:TRS:O3	8:A:401:HOH:O	1.60	1.17
3:F:303[B]:TRS:H32	8:F:401:HOH:O	1.48	1.13
1:A:206:ALA:HA	3:A:302[A]:TRS:H31	1.55	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:206:ALA:HA	3:F:303[A]:TRS:H11	1.56	0.86
3:E:302[B]:TRS:O2	8:E:401:HOH:O	1.93	0.86
1:A:148:ALA:HB2	1:A:239:ARG:HD3	1.60	0.82
3:B:302[A]:TRS:O3	8:B:401:HOH:O	1.97	0.81
1:A:29:ARG:HE	1:A:237:GLU:HG3	1.46	0.80
3:E:302[B]:TRS:H21	8:E:404:HOH:O	1.82	0.79
1:E:146:SER:HB3	8:E:494:HOH:O	1.83	0.78
3:F:303[A]:TRS:C3	8:F:401:HOH:O	2.37	0.71
3:F:303[A]:TRS:H32	8:F:401:HOH:O	1.89	0.70
1:A:209:GLY:HA3	4:A:303:PEG:H11	1.73	0.69
2:E:301:URI:O2	2:E:301:URI:H2'	1.92	0.68
2:C:301:URI:H2'	2:C:301:URI:O2	1.92	0.68
1:B:130:VAL:HG21	1:C:110:THR:O	1.93	0.67
3:B:302[B]:TRS:O3	8:B:402:HOH:O	2.12	0.67
1:F:157:SER:HB3	1:F:199:ALA:HB2	1.75	0.67
1:A:206:ALA:HA	3:A:302[B]:TRS:H11	1.78	0.66
1:C:206:ALA:HA	3:C:302[A]:TRS:H12	1.77	0.66
2:F:301:URI:H2'	2:F:301:URI:O2	1.97	0.65
1:A:157:SER:HB3	1:A:199:ALA:HB2	1.80	0.63
1:D:157:SER:HB3	1:D:199:ALA:HB2	1.81	0.63
1:C:185:GLU:O	1:C:189:MET:HG3	1.98	0.63
1:B:209:GLY:HA3	4:C:303:PEG:H42	1.79	0.63
1:F:141:ALA:O	1:F:145:GLU:HG3	1.98	0.62
1:C:4:THR:HG23	1:C:11:THR:HG22	1.81	0.62
1:A:219:ILE:O	1:A:228:PRO:HG3	1.99	0.61
3:D:302[A]:TRS:H11	8:E:448:HOH:O	2.02	0.60
2:B:301:URI:O2	2:B:301:URI:H2'	2.02	0.59
1:F:132:ASP:OD1	3:F:303[B]:TRS:H21	2.05	0.57
1:D:227:ILE:HD12	1:D:233:LEU:HD21	1.86	0.56
1:B:108:VAL:HG22	1:B:215:VAL:HG23	1.88	0.56
1:D:18:ALA:HB2	1:D:60:SER:HB3	1.87	0.56
1:F:36:LEU:HD11	1:F:241:ILE:HG13	1.88	0.55
1:F:178:ARG:HD2	8:F:533:HOH:O	2.05	0.55
1:E:148:ALA:HB1	8:E:496:HOH:O	2.06	0.54
1:A:198:SER:O	1:A:202:LEU:HG	2.08	0.54
1:F:220:ILE:HD11	1:F:225:LYS:HG3	1.90	0.53
1:A:184:LYS:NZ	8:A:402:HOH:O	2.41	0.53
2:D:301:URI:O2	2:D:301:URI:H2'	2.08	0.53
1:F:148:ALA:HB2	1:F:239:ARG:HE	1.72	0.53
1:B:132:ASP:OD1	3:B:302[B]:TRS:N	2.40	0.53
1:F:180:GLN:NE2	8:F:403:HOH:O	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4:THR:HB	1:B:11:THR:HG22	1.90	0.53
1:C:20:LEU:HD21	1:C:89:LEU:HD13	1.90	0.53
3:D:302[B]:TRS:H31	8:E:448:HOH:O	2.09	0.53
1:D:15:LEU:HG	1:D:62:VAL:CG2	2.39	0.52
1:B:157:SER:HB3	1:B:199:ALA:HB2	1.92	0.52
1:E:184:LYS:HA	1:E:187:GLN:OE1	2.08	0.52
3:F:303[B]:TRS:C3	8:F:401:HOH:O	2.26	0.51
1:C:157:SER:HB3	1:C:199:ALA:HB2	1.92	0.51
4:B:304:PEG:H32	8:B:513:HOH:O	2.10	0.51
1:C:128:PRO:HB2	1:C:130:VAL:HG13	1.92	0.51
1:A:162:TYR:HB2	1:A:163:PRO:HD3	1.93	0.50
1:A:162:TYR:OH	1:B:79:GLU:OE2	2.27	0.50
1:E:157:SER:HB3	1:E:199:ALA:HB2	1.94	0.50
1:B:206:ALA:HA	3:B:302[A]:TRS:H31	1.94	0.50
1:D:15:LEU:HG	1:D:62:VAL:HG21	1.94	0.49
1:E:18:ALA:HB2	1:E:60:SER:HB2	1.93	0.49
1:A:31:GLN:NE2	8:A:405:HOH:O	2.44	0.49
1:A:29:ARG:NE	1:A:237:GLU:HG3	2.22	0.49
2:A:301:URI:H2'	2:A:301:URI:O2	2.13	0.49
1:C:162:TYR:HB2	1:C:163:PRO:CD	2.43	0.49
1:F:148:ALA:HB2	1:F:239:ARG:NE	2.28	0.48
1:D:23:ILE:HA	1:D:64:CYS:O	2.13	0.48
1:A:16:ASN:HB3	1:A:53:ARG:HD2	1.96	0.48
1:D:162:TYR:HB2	1:D:163:PRO:HD3	1.96	0.47
8:C:431:HOH:O	1:D:71:PRO:HD3	2.14	0.47
1:E:37:MET:HG2	1:E:56:LEU:HD13	1.96	0.47
1:C:25:GLY:HA3	8:C:430:HOH:O	2.14	0.47
1:E:14:ASP:O	1:E:53:ARG:HD3	2.15	0.47
1:C:195:GLU:OE2	1:C:198:SER:N	2.48	0.47
4:C:303:PEG:H21	8:C:512:HOH:O	2.15	0.47
1:D:37:MET:HG2	1:D:56:LEU:HD13	1.97	0.46
1:E:104:GLY:O	1:E:239:ARG:NH2	2.49	0.46
1:A:43:LEU:HD11	1:A:53:ARG:HB2	1.98	0.46
1:E:231:ALA:HA	1:E:234:LYS:HE3	1.97	0.46
1:C:26:ASP:HA	1:C:27:PRO:HD2	1.85	0.46
1:C:38:ASP:HB2	1:C:55:GLU:HB2	1.98	0.46
1:F:118:ALA:O	1:F:121:HIS:HB2	2.16	0.46
1:F:162:TYR:HB2	1:F:163:PRO:CD	2.46	0.46
1:E:36:LEU:HD12	1:E:241:ILE:HG22	1.98	0.46
1:F:37:MET:HG2	1:F:56:LEU:HD21	1.98	0.45
1:A:91:VAL:HA	1:A:215:VAL:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:304:PEG:H21	1:C:209:GLY:HA3	1.99	0.45
1:D:253:LYS:HG3	8:D:479:HOH:O	2.16	0.45
1:A:23:ILE:HA	1:A:64:CYS:O	2.17	0.45
1:C:198:SER:O	1:C:202:LEU:HG	2.17	0.45
1:E:5:VAL:HG23	1:E:8:LEU:HB2	1.99	0.45
1:A:90[B]:ARG:HH11	1:A:195:GLU:HG2	1.82	0.45
1:F:30:VAL:HG12	1:F:52:TYR:CD1	2.52	0.45
1:A:225:LYS:HA	1:A:225:LYS:HD2	1.79	0.44
1:A:90[B]:ARG:NH1	1:A:195:GLU:HG2	2.33	0.44
1:B:30:VAL:HG12	1:B:52:TYR:CD1	2.52	0.44
1:D:246:GLU:O	1:D:249:ARG:HB2	2.18	0.44
1:B:198:SER:O	1:B:202:LEU:HG	2.16	0.44
3:B:302[A]:TRS:H12	8:C:436:HOH:O	2.17	0.44
1:A:162:TYR:HB2	1:A:163:PRO:CD	2.47	0.44
1:A:177:ARG:HB2	1:C:185:GLU:OE2	2.16	0.44
1:E:220:ILE:HG13	1:E:221:ASN:N	2.32	0.43
1:F:87:THR:HG22	1:F:89:LEU:CD1	2.48	0.43
1:A:148:ALA:CB	1:A:239:ARG:HD3	2.38	0.43
1:C:162:TYR:CB	1:C:163:PRO:CD	2.97	0.43
1:A:234:LYS:NZ	8:A:407:HOH:O	2.51	0.42
1:C:49:TYR:CE1	1:C:76:ALA:HB2	2.54	0.42
1:F:162:TYR:CB	1:F:163:PRO:CD	2.97	0.42
1:D:227:ILE:HA	1:D:228:PRO:HD3	1.86	0.42
1:A:5:VAL:CG2	1:A:8:LEU:HB2	2.49	0.42
1:D:231:ALA:O	1:D:233:LEU:HG	2.20	0.42
1:A:95:GLY:HA2	1:A:220:ILE:HG22	2.01	0.42
1:B:227:ILE:HA	1:B:228:PRO:HD3	1.90	0.42
1:A:241:ILE:O	1:A:245:VAL:HG23	2.20	0.42
1:A:140:LYS:HE2	1:A:144:GLN:NE2	2.35	0.41
1:A:171:PHE:CE2	1:B:210:LEU:HD21	2.56	0.41
3:E:302[A]:TRS:C3	8:E:407:HOH:O	2.67	0.41
1:A:195:GLU:OE2	1:A:198:SER:N	2.54	0.41
1:B:162:TYR:HB2	1:B:163:PRO:CD	2.51	0.40
1:D:56:LEU:HD12	1:D:56:LEU:HA	1.97	0.40
1:E:162:TYR:HB2	1:E:163:PRO:HD3	2.03	0.40
1:F:113:VAL:HB	1:F:156:ALA:HA	2.04	0.40
1:C:239:ARG:O	1:C:243:VAL:HG23	2.22	0.40
1:C:87:THR:HG22	1:C:89:LEU:CD1	2.52	0.40
1:F:157:SER:HA	1:F:195:GLU:O	2.21	0.40
1:E:38:ASP:O	1:E:55:GLU:N	2.51	0.40

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	251/253 (99%)	245 (98%)	5 (2%)	1 (0%)	34	35
1	B	250/253 (99%)	240 (96%)	9 (4%)	1 (0%)	34	35
1	C	250/253 (99%)	244 (98%)	5 (2%)	1 (0%)	34	35
1	D	248/253 (98%)	238 (96%)	9 (4%)	1 (0%)	34	35
1	E	249/253 (98%)	246 (99%)	2 (1%)	1 (0%)	34	35
1	F	251/253 (99%)	246 (98%)	4 (2%)	1 (0%)	34	35
All	All	1499/1518 (99%)	1459 (97%)	34 (2%)	6 (0%)	34	35

All (6) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	C	162	TYR
1	D	162	TYR
1	E	162	TYR
1	A	162	TYR
1	B	162	TYR
1	F	162	TYR

5.3.2 Protein sidechains [i](#)

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	203/203 (100%)	199 (98%)	4 (2%)	55	62
1	B	202/203 (100%)	197 (98%)	5 (2%)	47	54

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	C	202/203 (100%)	197 (98%)	5 (2%)	47	54
1	D	202/203 (100%)	197 (98%)	5 (2%)	47	54
1	E	201/203 (99%)	193 (96%)	8 (4%)	31	34
1	F	203/203 (100%)	201 (99%)	2 (1%)	76	82
All	All	1213/1218 (100%)	1184 (98%)	29 (2%)	49	55

All (29) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	36	LEU
1	A	187	GLN
1	A	220	ILE
1	A	253	LYS
1	B	3	LYS
1	B	174	ARG
1	B	195	GLU
1	B	232	THR
1	B	253	LYS
1	C	184	LYS
1	C	227	ILE
1	C	233	LEU
1	C	234	LYS
1	C	253	LYS
1	D	56	LEU
1	D	195	GLU
1	D	220	ILE
1	D	224	GLN
1	D	244	VAL
1	E	4	THR
1	E	57	ASP
1	E	60	SER
1	E	195	GLU
1	E	220	ILE
1	E	226	GLU
1	E	242	LYS
1	E	253	LYS
1	F	57	ASP
1	F	195	GLU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (4) such sidechains are listed below:

Mol	Chain	Res	Type
1	C	224	GLN
1	D	59	GLN
1	D	224	GLN
1	F	187	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 monosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 35 ligands modelled in this entry, 8 are monoatomic - leaving 27 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	F	305	-	5,5,5	0.44	0	5,5,5	0.42	0
2	URI	E	301	-	14,18,18	0.97	1 (7%)	14,26,26	1.57	1 (7%)
3	TRS	F	303[A]	-	7,7,7	0.29	0	9,9,9	4.63	6 (66%)
4	PEG	C	303	-	6,6,6	0.46	0	5,5,5	0.46	0
3	TRS	C	302[B]	-	7,7,7	0.37	0	9,9,9	0.42	0
3	TRS	D	302[B]	-	7,7,7	0.45	0	9,9,9	0.90	0
2	URI	C	301	-	14,18,18	0.89	1 (7%)	14,26,26	1.39	2 (14%)
3	TRS	C	302[A]	-	7,7,7	0.43	0	9,9,9	4.70	5 (55%)
2	URI	A	301	-	14,18,18	0.99	1 (7%)	14,26,26	1.59	2 (14%)
6	GOL	D	304	-	5,5,5	0.51	0	5,5,5	0.45	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	TRS	E	302[A]	-	7,7,7	0.40	0	9,9,9	0.61	0
3	TRS	E	302[B]	-	7,7,7	0.36	0	9,9,9	0.49	0
3	TRS	B	302[B]	-	7,7,7	0.42	0	9,9,9	0.68	0
3	TRS	B	302[A]	-	7,7,7	0.48	0	9,9,9	0.76	0
3	TRS	F	304	-	7,7,7	0.40	0	9,9,9	1.01	1 (11%)
3	TRS	F	302	-	7,7,7	0.40	0	9,9,9	0.77	0
6	GOL	B	303	-	5,5,5	0.23	0	5,5,5	0.39	0
4	PEG	B	304	-	6,6,6	0.35	0	5,5,5	0.51	0
2	URI	D	301	-	14,18,18	0.86	0	14,26,26	1.32	1 (7%)
3	TRS	D	303	-	7,7,7	0.37	0	9,9,9	1.06	1 (11%)
3	TRS	A	302[A]	-	7,7,7	0.45	0	9,9,9	1.05	0
3	TRS	A	302[B]	-	7,7,7	0.33	0	9,9,9	0.46	0
3	TRS	D	302[A]	-	7,7,7	0.31	0	9,9,9	0.44	0
4	PEG	A	303	-	6,6,6	0.40	0	5,5,5	0.39	0
2	URI	B	301	-	14,18,18	0.89	0	14,26,26	1.47	3 (21%)
2	URI	F	301	-	14,18,18	0.98	0	14,26,26	1.49	4 (28%)
3	TRS	F	303[B]	-	7,7,7	0.41	0	9,9,9	4.50	6 (66%)

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	F	305	-	-	2/4/4/4	-
2	URI	E	301	-	-	4/4/22/22	0/2/2/2
3	TRS	F	303[A]	-	-	6/9/9/9	-
4	PEG	C	303	-	-	2/4/4/4	-
3	TRS	C	302[B]	-	-	8/9/9/9	-
3	TRS	D	302[B]	-	-	3/9/9/9	-
2	URI	C	301	-	-	2/4/22/22	0/2/2/2
3	TRS	C	302[A]	-	-	6/9/9/9	-
2	URI	A	301	-	-	2/4/22/22	0/2/2/2
6	GOL	D	304	-	-	2/4/4/4	-
3	TRS	E	302[A]	-	-	6/9/9/9	-
3	TRS	E	302[B]	-	-	0/9/9/9	-
3	TRS	B	302[B]	-	-	7/9/9/9	-
3	TRS	B	302[A]	-	-	6/9/9/9	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	TRS	F	304	-	-	3/9/9/9	-
3	TRS	F	302	-	-	3/9/9/9	-
6	GOL	B	303	-	-	0/4/4/4	-
4	PEG	B	304	-	-	3/4/4/4	-
2	URI	D	301	-	-	2/4/22/22	0/2/2/2
3	TRS	D	303	-	-	2/9/9/9	-
3	TRS	A	302[A]	-	-	3/9/9/9	-
3	TRS	A	302[B]	-	-	3/9/9/9	-
3	TRS	D	302[A]	-	-	3/9/9/9	-
4	PEG	A	303	-	-	3/4/4/4	-
2	URI	B	301	-	-	4/4/22/22	0/2/2/2
2	URI	F	301	-	-	4/4/22/22	0/2/2/2
3	TRS	F	303[B]	-	-	6/9/9/9	-

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	301	URI	O4'-C1'	2.66	1.44	1.41
2	E	301	URI	O4'-C1'	2.44	1.44	1.41
2	C	301	URI	O4'-C1'	2.16	1.44	1.41

All (32) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	302[A]	TRS	C3-C-N	-8.37	83.00	107.98
3	F	303[B]	TRS	C1-C-N	-7.88	84.46	107.98
3	F	303[A]	TRS	C2-C-N	-7.75	84.83	107.98
3	F	303[A]	TRS	C1-C-N	-7.37	85.96	107.98
3	F	303[A]	TRS	C3-C-N	-7.33	86.09	107.98
3	C	302[A]	TRS	C2-C-N	-7.17	86.59	107.98
3	F	303[B]	TRS	C2-C-N	-7.10	86.79	107.98
3	C	302[A]	TRS	C1-C-N	-6.94	87.27	107.98
3	F	303[B]	TRS	C3-C-N	-6.49	88.61	107.98
3	C	302[A]	TRS	C3-C-C2	4.06	123.39	110.81
3	F	303[B]	TRS	C2-C-C1	4.02	123.29	110.81
2	E	301	URI	C3'-C2'-C1'	3.90	106.84	100.98
3	F	303[A]	TRS	C3-C-C2	3.35	121.19	110.81
2	A	301	URI	O3'-C3'-C4'	-3.18	101.86	111.05
2	C	301	URI	C3'-C2'-C1'	3.12	105.67	100.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	D	301	URI	C3'-C2'-C1'	3.02	105.52	100.98
2	F	301	URI	C3'-C2'-C1'	2.87	105.30	100.98
2	A	301	URI	C3'-C2'-C1'	2.84	105.26	100.98
3	F	303[A]	TRS	C2-C-C1	2.73	119.28	110.81
2	B	301	URI	C3'-C2'-C1'	2.60	104.89	100.98
3	C	302[A]	TRS	C2-C-C1	2.52	118.63	110.81
3	F	303[B]	TRS	C3-C-C2	2.44	118.37	110.81
2	F	301	URI	O3'-C3'-C4'	-2.40	104.11	111.05
2	B	301	URI	O3'-C3'-C4'	-2.34	104.28	111.05
3	F	303[A]	TRS	C3-C-C1	2.26	117.81	110.81
2	F	301	URI	O4'-C1'-C2'	-2.23	103.67	106.93
2	F	301	URI	C5-C4-N3	-2.16	118.56	123.31
3	F	304	TRS	C2-C-N	-2.10	101.72	107.98
3	F	303[B]	TRS	C3-C-C1	2.09	117.28	110.81
2	C	301	URI	C5'-C4'-C3'	-2.08	110.08	115.09
2	B	301	URI	O4'-C1'-C2'	-2.07	103.90	106.93
3	D	303	TRS	C2-C-C1	-2.07	104.40	110.81

There are no chirality outliers.

All (95) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
6	F	305	GOL	O1-C1-C2-C3
2	E	301	URI	C2'-C1'-N1-C6
2	E	301	URI	O4'-C1'-N1-C6
3	D	302[B]	TRS	N-C-C2-O2
3	C	302[B]	TRS	C2-C-C1-O1
3	C	302[B]	TRS	C3-C-C1-O1
3	C	302[B]	TRS	N-C-C1-O1
3	C	302[B]	TRS	C3-C-C2-O2
3	F	303[A]	TRS	C3-C-C1-O1
3	F	303[A]	TRS	C1-C-C2-O2
3	F	303[A]	TRS	N-C-C2-O2
3	F	303[A]	TRS	C1-C-C3-O3
3	F	303[A]	TRS	N-C-C3-O3
2	C	301	URI	C2'-C1'-N1-C6
2	C	301	URI	O4'-C1'-N1-C6
3	C	302[A]	TRS	C2-C-C1-O1
3	C	302[A]	TRS	C1-C-C2-O2
3	C	302[A]	TRS	N-C-C2-O2
3	C	302[A]	TRS	C1-C-C3-O3
3	C	302[A]	TRS	N-C-C3-O3

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Mol	Chain	Res	Type	Atoms
6	D	304	GOL	C1-C2-C3-O3
3	E	302[A]	TRS	C2-C-C1-O1
3	E	302[A]	TRS	C3-C-C1-O1
3	E	302[A]	TRS	N-C-C1-O1
3	B	302[B]	TRS	C3-C-C1-O1
3	B	302[B]	TRS	N-C-C1-O1
3	B	302[B]	TRS	C1-C-C2-O2
3	B	302[B]	TRS	N-C-C2-O2
3	B	302[A]	TRS	C3-C-C1-O1
3	B	302[A]	TRS	N-C-C1-O1
3	B	302[A]	TRS	C1-C-C2-O2
3	B	302[A]	TRS	N-C-C2-O2
3	F	304	TRS	C2-C-C1-O1
3	F	304	TRS	N-C-C1-O1
3	F	302	TRS	C1-C-C2-O2
3	F	302	TRS	C3-C-C2-O2
3	F	302	TRS	N-C-C2-O2
2	D	301	URI	C2'-C1'-N1-C6
2	D	301	URI	O4'-C1'-N1-C6
3	D	303	TRS	N-C-C3-O3
2	F	301	URI	C2'-C1'-N1-C6
2	F	301	URI	O4'-C1'-N1-C6
3	A	302[A]	TRS	C2-C-C1-O1
3	A	302[A]	TRS	C3-C-C1-O1
3	A	302[B]	TRS	C2-C-C1-O1
3	A	302[B]	TRS	C3-C-C1-O1
3	A	302[B]	TRS	N-C-C1-O1
3	D	302[A]	TRS	N-C-C2-O2
2	B	301	URI	C2'-C1'-N1-C6
2	B	301	URI	O4'-C1'-N1-C6
2	A	301	URI	C2'-C1'-N1-C6
2	A	301	URI	O4'-C1'-N1-C6
3	F	303[B]	TRS	C3-C-C1-O1
3	F	303[B]	TRS	N-C-C1-O1
3	F	303[B]	TRS	C3-C-C2-O2
2	B	301	URI	C3'-C4'-C5'-O5'
2	B	301	URI	O4'-C4'-C5'-O5'
4	C	303	PEG	O1-C1-C2-O2
4	A	303	PEG	O1-C1-C2-O2
4	A	303	PEG	O2-C3-C4-O4
6	F	305	GOL	O1-C1-C2-O2
6	D	304	GOL	O2-C2-C3-O3

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Mol	Chain	Res	Type	Atoms
2	F	301	URI	O4'-C4'-C5'-O5'
2	F	301	URI	C3'-C4'-C5'-O5'
3	D	302[B]	TRS	C1-C-C2-O2
3	C	302[B]	TRS	C1-C-C2-O2
3	B	302[B]	TRS	C3-C-C2-O2
3	D	302[A]	TRS	C1-C-C2-O2
3	F	303[B]	TRS	C1-C-C3-O3
4	B	304	PEG	O2-C3-C4-O4
2	E	301	URI	O4'-C4'-C5'-O5'
4	B	304	PEG	C4-C3-O2-C2
3	C	302[B]	TRS	N-C-C3-O3
3	F	303[A]	TRS	N-C-C1-O1
3	E	302[A]	TRS	N-C-C3-O3
3	B	302[B]	TRS	C2-C-C1-O1
3	B	302[A]	TRS	C2-C-C1-O1
3	B	302[A]	TRS	C3-C-C2-O2
3	F	304	TRS	C3-C-C1-O1
3	F	303[B]	TRS	N-C-C2-O2
4	A	303	PEG	C1-C2-O2-C3
4	C	303	PEG	O2-C3-C4-O4
4	B	304	PEG	C1-C2-O2-C3
3	D	302[B]	TRS	C3-C-C2-O2
3	C	302[B]	TRS	C1-C-C3-O3
3	C	302[A]	TRS	C3-C-C1-O1
3	E	302[A]	TRS	C1-C-C3-O3
3	E	302[A]	TRS	C2-C-C3-O3
3	D	303	TRS	C2-C-C3-O3
3	D	302[A]	TRS	C3-C-C2-O2
2	E	301	URI	C3'-C4'-C5'-O5'
3	C	302[B]	TRS	N-C-C2-O2
3	B	302[B]	TRS	C2-C-C3-O3
3	A	302[A]	TRS	N-C-C1-O1
3	F	303[B]	TRS	N-C-C3-O3

There are no ring outliers.

20 monomers are involved in 31 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	E	301	URI	1	0
3	F	303[A]	TRS	3	0
4	C	303	PEG	2	0
3	D	302[B]	TRS	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	C	301	URI	1	0
3	C	302[A]	TRS	1	0
2	A	301	URI	1	0
3	E	302[A]	TRS	1	0
3	E	302[B]	TRS	2	0
3	B	302[B]	TRS	2	0
3	B	302[A]	TRS	3	0
4	B	304	PEG	2	0
2	D	301	URI	1	0
3	A	302[A]	TRS	1	0
3	A	302[B]	TRS	2	0
3	D	302[A]	TRS	1	0
4	A	303	PEG	1	0
2	B	301	URI	1	0
2	F	301	URI	1	0
3	F	303[B]	TRS	3	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	251/253 (99%)	0.00	10 (3%) 38 38	16, 27, 55, 78	0
1	B	252/253 (99%)	-0.14	10 (3%) 38 38	15, 25, 54, 90	0
1	C	251/253 (99%)	-0.14	8 (3%) 47 47	15, 26, 51, 77	0
1	D	249/253 (98%)	-0.13	9 (3%) 42 42	17, 27, 52, 95	0
1	E	251/253 (99%)	0.01	10 (3%) 38 38	18, 30, 58, 97	0
1	F	251/253 (99%)	-0.27	7 (2%) 53 53	15, 25, 45, 86	0
All	All	1505/1518 (99%)	-0.11	54 (3%) 42 42	15, 27, 55, 97	0

All (54) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	E	227	ILE	7.8
1	D	228	PRO	6.3
1	B	2	THR	5.9
1	A	230	HIS	5.3
1	C	253	LYS	4.9
1	E	230	HIS	4.8
1	E	231	ALA	4.6
1	B	232	THR	4.5
1	D	233	LEU	4.3
1	B	230	HIS	4.2
1	F	230	HIS	4.1
1	E	228	PRO	4.0
1	A	227	ILE	4.0
1	F	233	LEU	3.9
1	A	229	ASP	3.7
1	B	233	LEU	3.6
1	D	227	ILE	3.6
1	D	225	LYS	3.5
1	E	15	LEU	3.4

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Mol	Chain	Res	Type	RSRZ
1	F	6	PHE	3.4
1	A	228	PRO	3.3
1	F	4	THR	3.3
1	C	230	HIS	3.3
1	A	231	ALA	3.3
1	C	3	LYS	3.2
1	A	11	THR	3.1
1	B	227	ILE	3.1
1	D	226	GLU	3.1
1	D	231	ALA	3.1
1	E	226	GLU	3.0
1	B	3	LYS	3.0
1	C	227	ILE	3.0
1	D	234	LYS	3.0
1	E	232	THR	2.8
1	A	3	LYS	2.8
1	F	232	THR	2.8
1	C	228	PRO	2.6
1	D	235	GLU	2.6
1	E	225	LYS	2.6
1	B	253	LYS	2.5
1	B	229	ASP	2.5
1	D	253	LYS	2.5
1	A	57	ASP	2.4
1	F	234	LYS	2.4
1	B	148	ALA	2.3
1	E	17	GLY	2.2
1	C	229	ASP	2.2
1	B	224	GLN	2.2
1	F	3	LYS	2.1
1	A	104	GLY	2.1
1	A	232	THR	2.1
1	E	223	THR	2.1
1	C	6	PHE	2.1
1	C	234	LYS	2.0

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 [i](#)

There are no monosaccharides 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(Å ²)	Q<0.9
6	GOL	F	305	6/6	0.82	0.19	44,47,50,53	0
6	GOL	B	303	6/6	0.85	0.25	55,55,56,56	0
3	TRS	E	302[B]	8/8	0.87	0.23	23,25,26,26	8
3	TRS	E	302[A]	8/8	0.87	0.23	13,14,15,16	8
3	TRS	F	304	8/8	0.89	0.12	30,31,32,32	0
4	PEG	B	304	7/7	0.90	0.15	42,46,47,49	0
4	PEG	C	303	7/7	0.91	0.14	36,38,40,41	0
4	PEG	A	303	7/7	0.91	0.14	44,45,47,50	0
3	TRS	B	302[A]	8/8	0.93	0.17	7,7,7,7	8
6	GOL	D	304	6/6	0.93	0.12	25,27,27,28	0
3	TRS	C	302[B]	8/8	0.93	0.16	15,16,16,17	8
3	TRS	C	302[A]	8/8	0.93	0.16	10,11,12,12	8
3	TRS	B	302[B]	8/8	0.93	0.17	9,10,10,10	8
3	TRS	F	302	8/8	0.94	0.13	29,31,31,31	0
3	TRS	D	303	8/8	0.94	0.12	22,24,25,28	0
3	TRS	D	302[A]	8/8	0.94	0.14	21,22,22,23	8
3	TRS	D	302[B]	8/8	0.94	0.14	14,15,15,16	8
3	TRS	A	302[A]	8/8	0.95	0.14	7,7,7,7	8
3	TRS	A	302[B]	8/8	0.95	0.14	15,15,15,16	8
3	TRS	F	303[A]	8/8	0.95	0.17	8,9,9,9	8
2	URI	E	301	17/17	0.95	0.11	24,26,30,34	0
3	TRS	F	303[B]	8/8	0.95	0.17	15,16,16,16	8
2	URI	D	301	17/17	0.96	0.10	25,26,28,32	0
2	URI	C	301	17/17	0.96	0.10	19,23,25,26	0
2	URI	F	301	17/17	0.96	0.12	24,27,33,41	0
2	URI	B	301	17/17	0.96	0.10	27,29,37,37	0
2	URI	A	301	17/17	0.96	0.10	21,23,27,30	0
5	CL	C	304	1/1	0.96	0.10	56,56,56,56	0
5	CL	A	305	1/1	0.97	0.04	53,53,53,53	0
5	CL	A	304	1/1	0.97	0.11	41,41,41,41	0
5	CL	F	306	1/1	0.97	0.12	44,44,44,44	0
5	CL	D	305	1/1	0.97	0.06	55,55,55,55	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
7	NA	F	307	1/1	0.97	0.09	36,36,36,36	0
7	NA	B	306	1/1	0.98	0.16	26,26,26,26	0
5	CL	B	305	1/1	0.99	0.11	45,45,45,45	0

6.5 Other polymers [i](#)

There are no such residues in this entry.