



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 8, 2026 – 02:04 PM UTC

PDB ID : 3EYV / pdb_00003eyv
Title : Anti-Lewis Y Fab fragment with Lewis Y antigen in the presence of zinc ions
Authors : Farrugia, W.; Scott, A.M.; Ramsland, P.A.
Deposited on : 2008-10-22
Resolution : 2.50 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 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

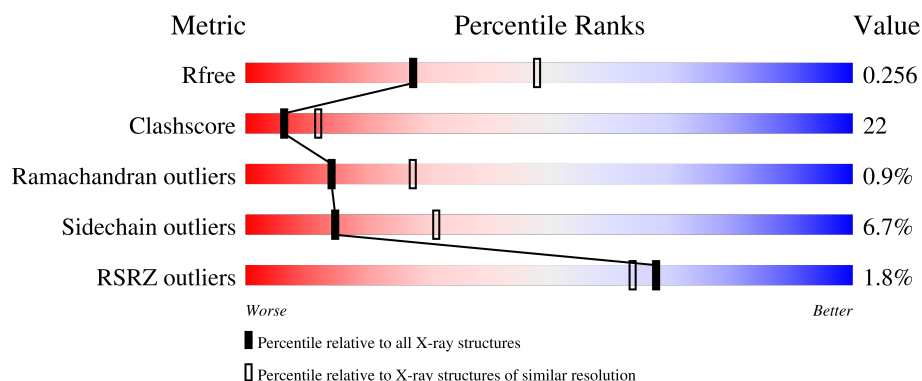
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.50 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	5829 (2.50-2.50)
Clashscore	190562	6492 (2.50-2.50)
Ramachandran outliers	187476	6378 (2.50-2.50)
Sidechain outliers	187428	6380 (2.50-2.50)
RSRZ outliers	180081	5833 (2.50-2.50)

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	219	3% 58% 37% 5%
1	L	219	2% 59% 37% ..
2	B	222	2% 66% 27% 8%
2	H	222	% 64% 31% 5% .
3	C	4	25% 75%

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
5	GOL	B	605	-	X	-	-

2 Entry composition [i](#)

There are 6 unique types of molecules in this entry. The entry contains 6891 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.

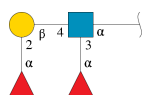
- Molecule 1 is a protein called hu3S193 Fab, light chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	L	216	Total	C	N	O	S	0	0	0
			1673	1048	285	335	5			
1	A	219	Total	C	N	O	S	0	0	0
			1693	1058	288	341	6			

- Molecule 2 is a protein called hu3S193 Fab, heavy chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	H	219	Total	C	N	O	S	0	0	0
			1652	1045	277	323	7			
2	B	222	Total	C	N	O	S	0	0	0
			1674	1057	281	328	8			

- Molecule 3 is an oligosaccharide called alpha-L-fucopyranose-(1-2)-beta-D-galactopyranose-(1-4)-[alpha-L-fucopyranose-(1-3)]2-acetamido-2-deoxy-alpha-D-glucopyranose.



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
3	C	4	Total	C	N	O	0	0	0
			46	26	1	19			

- Molecule 4 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	L	2	Total	Zn	0	0
			2	2		
4	A	2	Total	Zn	0	0
			2	2		

- Molecule 5 is GLYCEROL (CCD ID: GOL) (formula: $C_3H_8O_3$).



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

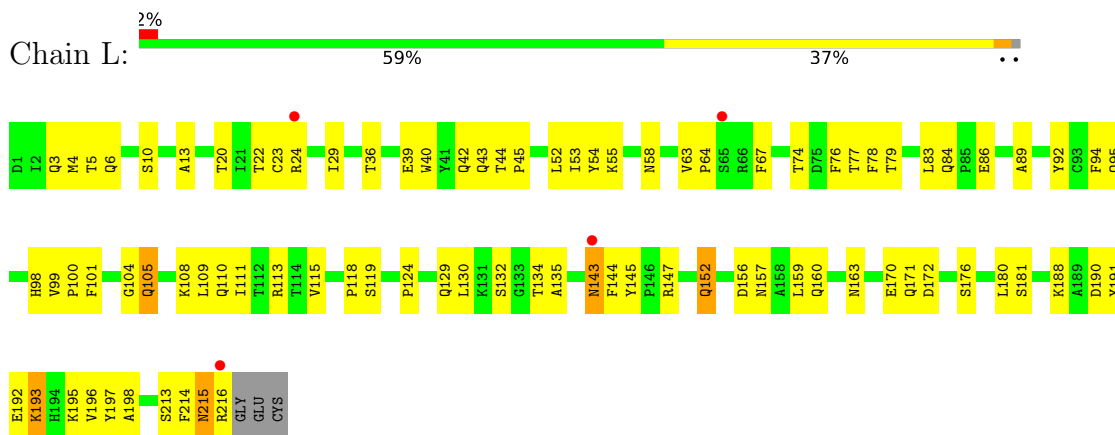
- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	L	28	Total	O	0	0
			28	28		
6	H	43	Total	O	0	0
			43	43		
6	A	27	Total	O	0	0
			27	27		
6	B	45	Total	O	0	0
			45	45		

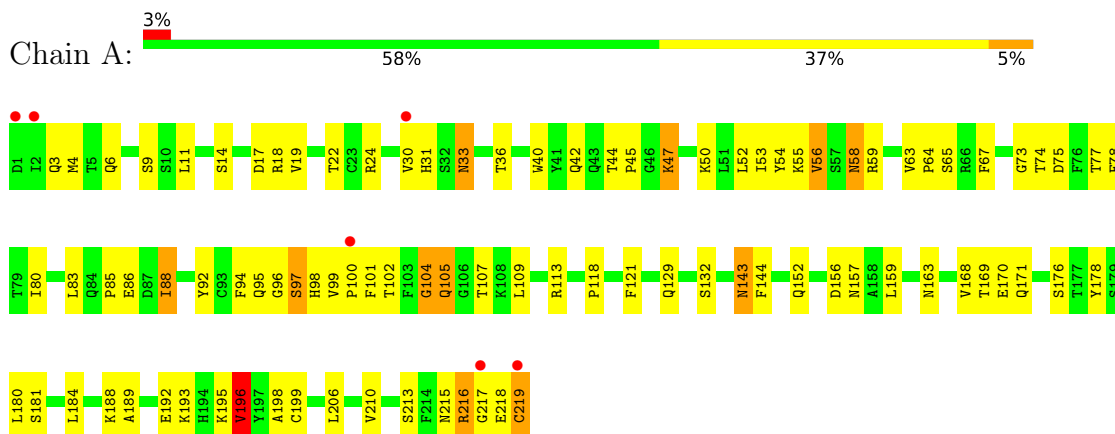
3 Residue-property plots [i](#)

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.

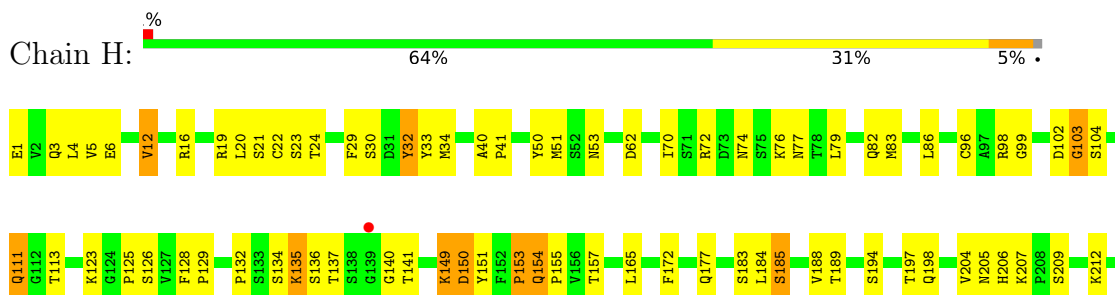
- Molecule 1: hu3S193 Fab, light chain



- Molecule 1: hu3S193 Fab, light chain

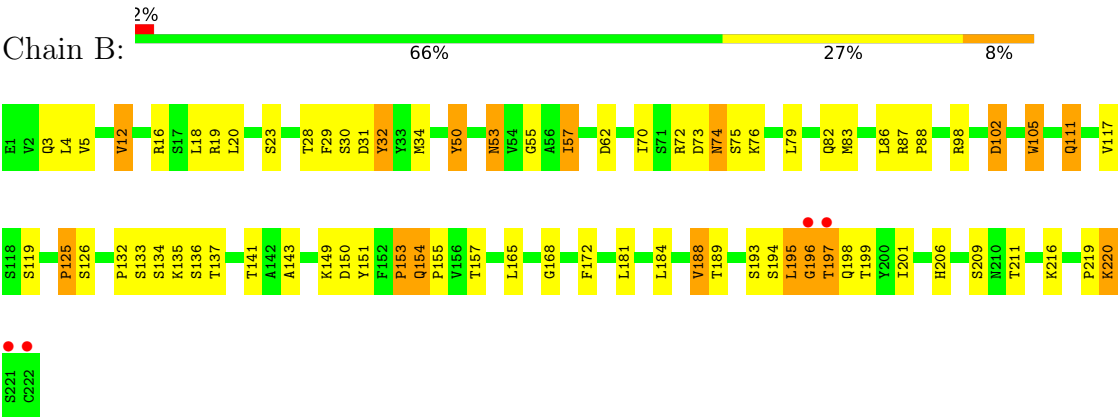


- Molecule 2: hu3S193 Fab, heavy chain





● Molecule 2: hu3S193 Fab, heavy chain



● Molecule 3: alpha-L-fucopyranose-(1-2)-beta-D-galactopyranose-(1-4)-[alpha-L-fucopyranose-(1-3)]2-acetamido-2-deoxy-alpha-D-glucopyranose



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	78.75Å 101.47Å 115.00Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	42.65 – 2.50 42.65 – 2.50	Depositor EDS
% Data completeness (in resolution range)	94.4 (42.65-2.50) 94.3 (42.65-2.50)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.07	Depositor
$\langle I/\sigma(I) \rangle$ ¹	4.84 (at 2.48Å)	Xtriage
Refinement program	CNS 1.0	Depositor
R, R_{free}	0.210 , 0.262 0.203 , 0.256	Depositor DCC
R_{free} test set	1548 reflections (4.90%)	wwPDB-VP
Wilson B-factor (Å ²)	31.5	Xtriage
Anisotropy	0.263	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 43.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	6891	wwPDB-VP
Average B, all atoms (Å ²)	28.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 18.69% 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: ZN, GAL, FUC, NDG, GOL

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	0.42	0/1731	0.92	2/2348 (0.1%)
1	L	0.42	0/1711	0.90	3/2323 (0.1%)
2	B	0.43	0/1718	1.01	9/2340 (0.4%)
2	H	0.45	0/1696	1.02	9/2313 (0.4%)
All	All	0.43	0/6856	0.96	23/9324 (0.2%)

There are no bond length outliers.

All (23) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	H	103	GLY	N-CA-C	10.29	126.73	114.48
2	B	196	GLY	N-CA-C	-9.16	103.78	114.69
2	H	32	TYR	N-CA-C	7.26	121.23	109.40
2	H	150	ASP	N-CA-C	7.08	119.20	110.91
2	B	197	THR	N-CA-C	-6.92	104.95	113.19
2	B	32	TYR	N-CA-C	6.55	120.19	109.85
2	H	149	LYS	N-CA-C	6.39	120.24	109.76
2	B	149	LYS	N-CA-C	6.15	119.95	110.42
1	A	196	VAL	N-CA-C	6.10	117.09	108.36
2	H	33	TYR	N-CA-C	-6.00	101.40	110.28
2	H	140	GLY	N-CA-C	-5.96	107.46	115.21
1	L	119	SER	N-CA-C	-5.93	100.00	109.96
1	A	104	GLY	N-CA-C	-5.85	103.44	112.85
2	B	135	LYS	N-CA-C	-5.83	106.01	113.23
2	B	172	PHE	N-CA-C	5.68	117.73	109.84
1	L	196	VAL	N-CA-C	5.46	116.16	108.36
2	H	126	SER	N-CA-C	-5.37	100.95	109.76
2	B	119	SER	N-CA-C	-5.33	106.61	113.23
2	B	102	ASP	N-CA-C	5.28	119.43	112.25
2	H	154	GLN	N-CA-C	-5.21	102.89	110.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	126	SER	N-CA-C	-5.15	101.87	110.17
2	H	102	ASP	N-CA-C	5.12	118.67	112.93
1	L	104	GLY	N-CA-C	-5.03	104.75	112.85

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	1693	0	1636	85	0
1	L	1673	0	1623	81	0
2	B	1674	0	1627	70	0
2	H	1652	0	1605	65	0
3	C	46	0	39	2	0
4	A	2	0	0	0	0
4	L	2	0	0	0	0
5	B	6	0	4	0	0
6	A	27	0	0	1	0
6	B	45	0	0	2	0
6	H	43	0	0	1	0
6	L	28	0	0	0	0
All	All	6891	0	6534	293	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 22.

All (293) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:105:GLN:H	1:A:105:GLN:NE2	1.63	0.96
1:A:4:MET:HE2	1:A:95:GLN:HB2	1.47	0.96
1:A:22:THR:HG22	1:A:77:THR:HG22	1.49	0.92
2:H:72:ARG:HE	2:H:74:ASN:HD21	1.04	0.91
2:H:111:GLN:H	2:H:111:GLN:HE21	1.13	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:160:GLN:HE21	1:L:163:ASN:HD21	1.22	0.88
1:A:47:LYS:HB2	1:A:47:LYS:NZ	1.93	0.83
1:A:85:PRO:O	1:A:88:ILE:HG22	1.78	0.83
2:H:72:ARG:NE	2:H:74:ASN:HD21	1.74	0.82
1:A:45:PRO:HG3	1:A:170:GLU:HG3	1.62	0.82
1:L:198:ALA:HB2	1:L:213:SER:HB3	1.61	0.81
1:L:192:GLU:HA	1:L:216:ARG:HH22	1.45	0.80
2:H:194:SER:O	2:H:197:THR:HG22	1.81	0.79
2:H:111:GLN:H	2:H:111:GLN:NE2	1.81	0.79
2:H:72:ARG:HE	2:H:74:ASN:ND2	1.81	0.79
2:H:172:PHE:O	2:H:184:LEU:HD11	1.84	0.78
1:L:152:GLN:NE2	1:L:159:LEU:HD23	1.99	0.77
2:B:12:VAL:HG13	2:B:16:ARG:HB2	1.67	0.75
2:B:83:MET:HB3	2:B:86:LEU:HD21	1.68	0.75
2:B:86:LEU:HB3	2:B:117:VAL:HG21	1.69	0.74
2:H:184:LEU:HD12	2:H:185:SER:H	1.53	0.73
1:L:160:GLN:NE2	1:L:163:ASN:HD21	1.88	0.71
1:L:42:GLN:HB2	1:L:52:LEU:HD11	1.73	0.71
2:H:34:MET:HB3	2:H:79:LEU:HD22	1.71	0.71
2:H:135:LYS:HB3	2:H:135:LYS:HZ2	1.54	0.70
1:A:105:GLN:H	1:A:105:GLN:HE21	1.39	0.70
1:L:192:GLU:HA	1:L:216:ARG:NH2	2.07	0.70
2:B:150:ASP:HB3	2:B:181:LEU:HD13	1.73	0.69
1:L:29:ILE:HD11	1:L:76:PHE:CE1	2.27	0.69
2:B:34:MET:HB3	2:B:79:LEU:HD22	1.72	0.69
1:A:47:LYS:HB2	1:A:47:LYS:HZ3	1.58	0.68
2:B:201:ILE:HD11	2:B:216:LYS:HE2	1.75	0.68
2:B:111:GLN:H	2:B:111:GLN:NE2	1.91	0.68
1:A:99:VAL:HG22	1:A:101:PHE:CE2	2.29	0.67
2:H:83:MET:HB3	2:H:86:LEU:HD21	1.77	0.67
2:H:177:GLN:NE2	2:H:183:SER:HB2	2.10	0.67
1:A:6:GLN:HE22	1:A:92:TYR:HA	1.59	0.66
1:L:110:GLN:HB3	1:L:171:GLN:HE22	1.61	0.66
1:A:180:LEU:HD23	1:A:181:SER:N	2.10	0.66
1:L:143:ASN:H	1:L:143:ASN:HD22	1.44	0.65
1:L:147:ARG:HG2	1:L:147:ARG:HH11	1.61	0.65
2:H:111:GLN:HE21	2:H:111:GLN:N	1.92	0.65
1:L:198:ALA:CB	1:L:213:SER:HB3	2.26	0.65
2:B:53:ASN:H	2:B:53:ASN:HD22	1.44	0.64
1:A:6:GLN:HE21	1:A:104:GLY:HA3	1.61	0.64
2:B:5:VAL:HA	2:B:111:GLN:HE22	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:105:GLN:H	1:L:105:GLN:NE2	1.95	0.63
2:H:204:VAL:O	2:H:212:LYS:HD2	1.98	0.63
1:A:218:GLU:O	1:A:219:CYS:OXT	2.17	0.63
1:A:42:GLN:HB2	1:A:52:LEU:HD11	1.81	0.62
1:L:111:ILE:H	1:L:171:GLN:HE22	1.47	0.62
1:A:99:VAL:CG1	1:A:100:PRO:HA	2.29	0.62
1:A:59:ARG:HD3	1:A:63:VAL:O	1.99	0.62
2:B:19:ARG:HD2	2:B:82:GLN:HE22	1.65	0.62
1:A:36:THR:O	1:A:56:VAL:HG23	2.00	0.62
2:H:3:GLN:O	2:H:4:LEU:HD23	2.00	0.61
2:B:30:SER:O	2:B:53:ASN:HB2	1.99	0.61
1:A:59:ARG:NE	1:A:65:SER:HA	2.16	0.61
2:H:184:LEU:HD12	2:H:185:SER:N	2.14	0.61
1:A:143:ASN:HD22	1:A:143:ASN:H	1.46	0.61
1:L:105:GLN:H	1:L:105:GLN:HE21	1.48	0.61
2:B:57:ILE:HD12	2:B:57:ILE:N	2.16	0.61
2:B:206:HIS:HD2	2:B:209:SER:OG	1.84	0.61
2:B:134:SER:HA	2:B:137:THR:HG22	1.82	0.60
1:L:45:PRO:HG3	1:L:170:GLU:HG3	1.82	0.60
1:L:143:ASN:HD22	1:L:143:ASN:N	2.00	0.60
2:B:125:PRO:HB3	2:B:151:TYR:HB3	1.82	0.60
1:L:188:LYS:O	1:L:192:GLU:HG3	2.00	0.60
1:A:31:HIS:HB3	1:A:33:ASN:ND2	2.17	0.60
1:A:99:VAL:HG13	1:A:100:PRO:HA	1.83	0.59
2:B:12:VAL:CG1	2:B:16:ARG:HB2	2.33	0.59
1:L:214:PHE:HB3	2:H:135:LYS:HE3	1.83	0.59
2:H:32:TYR:CD2	2:H:98:ARG:HD3	2.37	0.59
1:A:88:ILE:O	1:A:88:ILE:HD13	2.03	0.59
1:L:152:GLN:HE22	1:L:159:LEU:HD23	1.66	0.59
2:B:134:SER:C	2:B:137:THR:HG22	2.28	0.59
1:L:4:MET:HE2	1:L:95:GLN:HB2	1.85	0.58
2:H:20:LEU:HG	2:H:83:MET:HE2	1.84	0.58
2:H:4:LEU:HD22	2:H:24:THR:HG22	1.85	0.58
1:L:198:ALA:HB2	1:L:213:SER:CB	2.31	0.58
1:A:109:LEU:HD23	1:A:109:LEU:C	2.28	0.58
1:L:159:LEU:N	1:L:159:LEU:HD12	2.18	0.58
2:B:72:ARG:HE	2:B:74:ASN:HD21	1.51	0.57
2:H:149:LYS:HG2	2:H:150:ASP:CG	2.30	0.57
1:L:130:LEU:O	1:L:188:LYS:HD2	2.04	0.57
1:L:94:PHE:CZ	1:L:101:PHE:HB3	2.39	0.57
2:B:53:ASN:HD22	2:B:53:ASN:N	2.02	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:11:LEU:HD11	1:A:19:VAL:HG13	1.87	0.57
2:B:20:LEU:HG	2:B:83:MET:HE2	1.86	0.57
1:L:55:LYS:HB2	1:L:58:ASN:HD22	1.69	0.57
1:A:31:HIS:HB3	1:A:33:ASN:HD21	1.70	0.57
1:L:111:ILE:H	1:L:171:GLN:NE2	2.02	0.56
2:B:184:LEU:C	2:B:184:LEU:HD12	2.31	0.56
2:H:5:VAL:HA	2:H:111:GLN:HE22	1.71	0.56
2:B:50:TYR:CD1	2:B:50:TYR:C	2.84	0.56
2:B:19:ARG:HD2	2:B:82:GLN:NE2	2.21	0.56
2:B:55:GLY:C	2:B:57:ILE:HD12	2.31	0.56
2:B:133:SER:H	2:B:136:SER:HB2	1.69	0.56
1:L:215:ASN:O	1:L:216:ARG:CB	2.53	0.55
1:A:83:LEU:HD21	1:A:109:LEU:HD21	1.87	0.55
1:A:88:ILE:HD13	1:A:88:ILE:C	2.31	0.55
1:L:64:PRO:HG2	1:L:67:PHE:CD2	2.41	0.55
1:A:94:PHE:CZ	1:A:101:PHE:HB3	2.41	0.55
1:A:105:GLN:NE2	1:A:105:GLN:N	2.45	0.55
2:H:125:PRO:HB3	2:H:151:TYR:HB3	1.89	0.55
2:B:3:GLN:C	2:B:4:LEU:HD12	2.32	0.55
1:L:129:GLN:O	1:L:132:SER:HB2	2.06	0.55
1:L:118:PRO:HB3	1:L:144:PHE:HB3	1.90	0.54
2:H:132:PRO:HG2	2:H:219:PRO:HB3	1.90	0.54
2:B:154:GLN:HA	2:B:154:GLN:HE21	1.73	0.54
2:H:30:SER:O	2:H:53:ASN:HB2	2.07	0.54
2:H:157:THR:OG1	2:H:205:ASN:HB3	2.07	0.54
2:H:6:GLU:HG3	2:H:96:CYS:HB2	1.90	0.54
2:B:28:THR:O	2:B:31:ASP:HB2	2.08	0.53
1:L:95:GLN:OE1	1:L:98:HIS:N	2.39	0.53
1:L:190:ASP:O	1:L:193:LYS:HB2	2.07	0.53
1:A:99:VAL:HG22	1:A:101:PHE:HE2	1.71	0.53
2:H:16:ARG:HH11	2:H:16:ARG:HG2	1.74	0.53
2:B:134:SER:O	2:B:137:THR:HG22	2.09	0.53
1:L:113:ARG:HG3	1:L:145:TYR:CD2	2.43	0.53
1:A:95:GLN:OE1	1:A:97:SER:N	2.41	0.53
1:L:110:GLN:CA	1:L:171:GLN:HE22	2.21	0.52
1:L:52:LEU:C	1:L:53:ILE:HD12	2.35	0.52
2:H:19:ARG:HD2	2:H:82:GLN:NE2	2.24	0.52
1:A:168:VAL:HG12	1:A:169:THR:O	2.10	0.52
1:A:59:ARG:HG2	1:A:63:VAL:HB	1.90	0.52
1:L:110:GLN:HB3	1:L:171:GLN:NE2	2.24	0.52
1:A:101:PHE:N	1:A:101:PHE:CD2	2.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:215:ASN:O	1:L:216:ARG:HB2	2.10	0.52
1:A:152:GLN:O	1:A:199:CYS:HA	2.10	0.52
1:A:198:ALA:HB2	1:A:213:SER:HB3	1.91	0.52
1:A:33:ASN:N	1:A:33:ASN:HD22	2.08	0.52
2:B:132:PRO:HG2	2:B:219:PRO:HG3	1.91	0.52
2:H:177:GLN:CD	2:H:183:SER:HB2	2.35	0.51
1:A:105:GLN:HE21	1:A:105:GLN:N	2.05	0.51
1:L:40:TRP:CE2	1:L:78:PHE:HB2	2.45	0.51
2:B:73:ASP:C	2:B:75:SER:H	2.19	0.51
2:B:29:PHE:HE1	2:B:34:MET:HE2	1.75	0.51
2:B:111:GLN:H	2:B:111:GLN:HE21	1.56	0.51
2:H:205:ASN:ND2	2:H:207:LYS:HE2	2.25	0.51
1:A:143:ASN:HD22	1:A:143:ASN:N	2.06	0.51
1:A:6:GLN:HB2	1:A:105:GLN:OE1	2.11	0.51
1:A:30:VAL:O	1:A:30:VAL:HG13	2.09	0.51
2:B:134:SER:CA	2:B:137:THR:HG22	2.40	0.51
1:A:152:GLN:HE22	1:A:159:LEU:HD11	1.74	0.50
1:L:83:LEU:HD11	1:L:109:LEU:HD21	1.94	0.50
2:H:135:LYS:HZ2	2:H:135:LYS:CB	2.23	0.50
1:A:33:ASN:HD22	1:A:33:ASN:H	1.57	0.50
2:B:73:ASP:OD2	2:B:76:LYS:HD3	2.10	0.50
2:B:12:VAL:O	2:B:117:VAL:HA	2.11	0.50
1:L:160:GLN:HE21	1:L:163:ASN:ND2	2.01	0.50
1:L:215:ASN:O	1:L:216:ARG:CG	2.60	0.50
1:A:64:PRO:HG2	1:A:67:PHE:CD2	2.46	0.50
1:A:219:CYS:HA	6:A:227:HOH:O	2.11	0.50
2:B:32:TYR:CD2	2:B:98:ARG:HD3	2.46	0.50
1:L:110:GLN:CB	1:L:171:GLN:HE22	2.23	0.50
1:L:156:ASP:O	1:L:157:ASN:HB2	2.11	0.50
2:H:50:TYR:CD1	2:H:50:TYR:C	2.90	0.50
1:A:96:GLY:O	2:B:105:TRP:CH2	2.64	0.50
1:L:29:ILE:HG21	1:L:95:GLN:HG3	1.94	0.49
1:L:29:ILE:O	1:L:36:THR:HG23	2.13	0.49
2:H:134:SER:O	2:H:137:THR:HG22	2.12	0.49
2:B:134:SER:HA	2:B:137:THR:CG2	2.42	0.49
1:A:47:LYS:HB2	1:A:47:LYS:HZ2	1.73	0.49
1:A:156:ASP:O	1:A:157:ASN:HB2	2.13	0.49
1:L:24:ARG:HA	1:L:74:THR:O	2.13	0.48
1:L:44:THR:HB	1:L:45:PRO:HD2	1.95	0.48
2:H:172:PHE:O	2:H:184:LEU:CD1	2.58	0.48
1:L:159:LEU:HD12	1:L:159:LEU:H	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:192:GLU:CA	1:L:216:ARG:HH22	2.21	0.48
1:L:6:GLN:H	1:L:105:GLN:HE22	1.61	0.48
1:A:189:ALA:O	1:A:193:LYS:HG3	2.13	0.48
1:A:24:ARG:HD3	1:A:75:ASP:OD1	2.12	0.48
2:B:55:GLY:O	2:B:57:ILE:HD12	2.13	0.48
2:H:23:SER:OG	2:B:193:SER:HB2	2.13	0.48
1:A:67:PHE:CD1	1:A:80:ILE:HG12	2.49	0.48
1:L:84:GLN:NE2	1:L:86:GLU:OE2	2.47	0.48
2:H:53:ASN:HD22	2:H:53:ASN:H	1.62	0.48
1:L:215:ASN:O	1:L:216:ARG:HG3	2.14	0.47
1:L:6:GLN:HA	1:L:22:THR:O	2.14	0.47
1:L:191:TYR:O	1:L:216:ARG:NH2	2.48	0.47
2:H:194:SER:HB3	2:B:23:SER:HB2	1.97	0.47
1:L:55:LYS:HD2	2:H:103:GLY:HA3	1.96	0.47
2:H:12:VAL:HG11	2:H:86:LEU:HD13	1.97	0.47
1:A:24:ARG:HA	1:A:74:THR:O	2.13	0.47
2:B:198:GLN:HG2	2:B:199:THR:N	2.30	0.47
2:H:154:GLN:HE21	2:H:154:GLN:HA	1.80	0.47
1:A:67:PHE:HD1	1:A:80:ILE:HG12	1.80	0.47
1:L:40:TRP:CD2	1:L:78:PHE:HB2	2.50	0.47
1:A:55:LYS:O	1:A:56:VAL:HB	2.15	0.46
1:A:113:ARG:HD2	1:A:176:SER:HB2	1.97	0.46
1:L:54:TYR:O	1:L:58:ASN:HB2	2.15	0.46
2:B:72:ARG:NE	2:B:74:ASN:HD21	2.13	0.46
1:L:63:VAL:HG13	1:L:64:PRO:HD2	1.95	0.46
2:B:16:ARG:HG2	2:B:16:ARG:HH11	1.81	0.46
1:L:111:ILE:N	1:L:171:GLN:HE22	2.12	0.46
2:B:53:ASN:N	2:B:53:ASN:ND2	2.64	0.46
1:A:52:LEU:O	1:A:53:ILE:HD13	2.15	0.46
1:L:5:THR:HA	1:L:105:GLN:HE22	1.81	0.46
2:H:19:ARG:HD2	2:H:82:GLN:HE22	1.80	0.46
1:L:197:TYR:O	1:L:213:SER:HB2	2.16	0.45
2:H:98:ARG:C	2:H:98:ARG:HD2	2.41	0.45
2:H:111:GLN:NE2	2:H:111:GLN:N	2.58	0.45
1:A:59:ARG:HH11	1:A:59:ARG:HB3	1.81	0.45
1:A:159:LEU:C	1:A:159:LEU:HD23	2.41	0.45
2:B:196:GLY:C	2:B:198:GLN:H	2.23	0.45
2:B:72:ARG:HE	2:B:74:ASN:ND2	2.13	0.45
2:B:136:SER:HB3	2:B:143:ALA:O	2.16	0.45
2:H:172:PHE:HD1	2:H:185:SER:O	1.99	0.45
1:A:40:TRP:CD2	1:A:78:PHE:HB2	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:141:THR:CG2	2:B:189:THR:HB	2.46	0.45
1:L:6:GLN:OE1	1:L:92:TYR:HA	2.17	0.45
1:A:163:ASN:ND2	1:A:184:LEU:HD11	2.32	0.45
1:A:129:GLN:O	1:A:132:SER:HB2	2.17	0.45
1:L:39:GLU:OE2	2:H:104:SER:HA	2.17	0.44
2:H:98:ARG:HD2	2:H:99:GLY:O	2.17	0.44
2:H:205:ASN:HD21	2:H:207:LYS:HE2	1.83	0.44
1:A:9:SER:O	1:A:107:THR:HA	2.17	0.44
2:B:88:PRO:HA	2:B:117:VAL:O	2.17	0.44
2:H:22:CYS:HB3	2:H:79:LEU:HB3	2.00	0.44
2:H:51:MET:HB2	2:H:70:ILE:HD13	1.99	0.44
1:A:109:LEU:C	1:A:109:LEU:CD2	2.91	0.44
1:A:121:PHE:HD1	2:B:136:SER:O	2.00	0.44
2:B:168:GLY:O	2:B:188:VAL:HA	2.18	0.44
2:H:134:SER:C	2:H:137:THR:HG22	2.43	0.44
2:H:141:THR:CG2	2:H:189:THR:HB	2.47	0.44
2:H:153:PRO:O	2:H:206:HIS:HE1	2.00	0.44
1:A:11:LEU:HD23	1:A:11:LEU:O	2.18	0.44
2:B:32:TYR:HA	6:B:647:HOH:O	2.17	0.44
1:L:191:TYR:O	1:L:197:TYR:OH	2.36	0.43
1:L:195:LYS:O	1:L:215:ASN:HA	2.18	0.43
2:H:40:ALA:HB1	2:H:41:PRO:HD2	2.00	0.43
2:H:206:HIS:HD2	2:H:209:SER:OG	2.00	0.43
1:L:124:PRO:HB3	1:L:214:PHE:CE2	2.53	0.43
1:A:118:PRO:HB3	1:A:144:PHE:HB3	2.00	0.43
2:B:150:ASP:HB3	2:B:181:LEU:CD1	2.43	0.43
1:L:147:ARG:HG2	1:L:147:ARG:NH1	2.30	0.43
1:A:42:GLN:CB	1:A:52:LEU:HD11	2.48	0.43
1:A:196:VAL:HG23	1:A:196:VAL:O	2.18	0.43
1:A:152:GLN:NE2	1:A:159:LEU:HD11	2.34	0.43
1:L:52:LEU:HA	1:L:63:VAL:HG21	2.00	0.43
2:H:1:GLU:CD	1:A:143:ASN:OD1	2.61	0.43
1:A:44:THR:HB	1:A:45:PRO:HD2	2.01	0.43
2:B:70:ILE:HD11	2:B:79:LEU:HD11	1.99	0.43
1:L:180:LEU:HD23	1:L:181:SER:N	2.33	0.43
1:A:121:PHE:CD1	2:B:136:SER:O	2.71	0.43
1:A:58:ASN:N	1:A:58:ASN:HD22	2.16	0.42
1:L:134:THR:HG22	1:L:135:ALA:N	2.33	0.42
1:L:172:ASP:O	1:L:176:SER:HA	2.19	0.42
1:A:206:LEU:HD13	1:A:210:VAL:HG23	1.99	0.42
1:A:59:ARG:NH1	1:A:59:ARG:CB	2.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:73:ASP:C	2:B:75:SER:N	2.77	0.42
2:B:98:ARG:HD2	2:B:98:ARG:C	2.44	0.42
2:B:220:LYS:HB2	2:B:220:LYS:HE3	1.84	0.42
1:A:192:GLU:C	1:A:216:ARG:NH1	2.77	0.42
1:A:215:ASN:O	1:A:217:GLY:N	2.52	0.42
3:C:2:GAL:O6	3:C:2:GAL:O4	2.29	0.42
2:H:154:GLN:NE2	6:H:251:HOH:O	2.53	0.42
2:H:207:LYS:O	2:H:209:SER:N	2.52	0.42
2:B:206:HIS:HB3	2:B:211:THR:HB	2.00	0.42
1:L:13:ALA:HB3	1:L:83:LEU:CD2	2.50	0.42
2:H:76:LYS:O	2:H:77:ASN:C	2.63	0.42
2:B:57:ILE:N	2:B:57:ILE:CD1	2.81	0.42
1:A:6:GLN:NE2	1:A:92:TYR:HA	2.31	0.42
2:B:196:GLY:C	2:B:198:GLN:N	2.78	0.42
1:L:20:THR:OG1	1:L:79:THR:HG23	2.20	0.42
1:A:14:SER:O	1:A:17:ASP:HB2	2.20	0.42
1:A:55:LYS:HD2	2:B:102:ASP:O	2.20	0.42
1:A:54:TYR:CE2	1:A:55:LYS:HD3	2.55	0.41
1:A:143:ASN:N	1:A:143:ASN:ND2	2.68	0.41
2:B:153:PRO:O	2:B:206:HIS:HE1	2.03	0.41
2:H:113:THR:HG23	2:H:113:THR:O	2.20	0.41
1:L:10:SER:HA	1:L:108:LYS:O	2.20	0.41
2:B:57:ILE:HD12	2:B:57:ILE:H	1.86	0.41
2:H:29:PHE:CD2	2:H:77:ASN:HA	2.56	0.41
2:H:34:MET:HB2	2:H:79:LEU:HD13	2.03	0.41
2:B:87:ARG:O	2:B:88:PRO:C	2.63	0.41
1:A:171:GLN:HB2	1:A:178:TYR:CE1	2.55	0.41
1:A:33:ASN:ND2	1:A:33:ASN:H	2.18	0.41
1:L:110:GLN:OE1	1:L:171:GLN:NE2	2.53	0.41
2:B:111:GLN:HB3	6:B:629:HOH:O	2.21	0.41
1:L:43:GLN:O	1:L:89:ALA:HB1	2.21	0.41
2:B:18:LEU:HD12	2:B:18:LEU:HA	1.84	0.41
1:L:99:VAL:CG1	1:L:100:PRO:HA	2.51	0.40
1:L:156:ASP:O	1:L:157:ASN:CB	2.69	0.40
1:L:180:LEU:HD23	1:L:180:LEU:C	2.46	0.40
2:H:16:ARG:HG2	2:H:16:ARG:NH1	2.35	0.40
2:H:128:PHE:HA	2:H:129:PRO:HD3	1.83	0.40
1:A:59:ARG:HB3	1:A:59:ARG:NH1	2.36	0.40
2:B:194:SER:O	2:B:195:LEU:O	2.38	0.40
1:L:4:MET:HE3	1:L:23:CYS:SG	2.61	0.40
3:C:1:NDG:O6	3:C:3:FUC:H3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:135:LYS:CB	2:H:135:LYS:NZ	2.85	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	217/219 (99%)	200 (92%)	12 (6%)	5 (2%)	5	8
1	L	214/219 (98%)	204 (95%)	10 (5%)	0	100	100
2	B	220/222 (99%)	197 (90%)	20 (9%)	3 (1%)	9	17
2	H	217/222 (98%)	207 (95%)	10 (5%)	0	100	100
All	All	868/882 (98%)	808 (93%)	52 (6%)	8 (1%)	14	27

All (8) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	143	ASN
2	B	195	LEU
1	A	97	SER
1	A	216	ARG
2	B	74	ASN
2	B	220	LYS
1	A	56	VAL
1	A	73	GLY

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	195/195 (100%)	180 (92%)	15 (8%)	12	25
1	L	193/195 (99%)	185 (96%)	8 (4%)	27	53
2	B	189/189 (100%)	174 (92%)	15 (8%)	11	24
2	H	186/189 (98%)	173 (93%)	13 (7%)	14	29
All	All	763/768 (99%)	712 (93%)	51 (7%)	15	31

All (51) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	L	3	GLN
1	L	77	THR
1	L	105	GLN
1	L	115	VAL
1	L	143	ASN
1	L	152	GLN
1	L	193	LYS
1	L	215	ASN
2	H	12	VAL
2	H	21	SER
2	H	62	ASP
2	H	111	GLN
2	H	123	LYS
2	H	135	LYS
2	H	136	SER
2	H	153	PRO
2	H	155	PRO
2	H	165	LEU
2	H	185	SER
2	H	188	VAL
2	H	198	GLN
1	A	3	GLN
1	A	18	ARG
1	A	33	ASN
1	A	47	LYS
1	A	50	LYS
1	A	58	ASN
1	A	86	GLU
1	A	88	ILE
1	A	98	HIS

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Mol	Chain	Res	Type
1	A	102	THR
1	A	105	GLN
1	A	188	LYS
1	A	195	LYS
1	A	196	VAL
1	A	219	CYS
2	B	12	VAL
2	B	50	TYR
2	B	53	ASN
2	B	57	ILE
2	B	62	ASP
2	B	105	TRP
2	B	111	GLN
2	B	125	PRO
2	B	153	PRO
2	B	154	GLN
2	B	155	PRO
2	B	157	THR
2	B	165	LEU
2	B	188	VAL
2	B	197	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (36) such sidechains are listed below:

Mol	Chain	Res	Type
1	L	3	GLN
1	L	27	GLN
1	L	58	ASN
1	L	84	GLN
1	L	105	GLN
1	L	110	GLN
1	L	143	ASN
1	L	152	GLN
1	L	160	GLN
1	L	171	GLN
2	H	3	GLN
2	H	74	ASN
2	H	77	ASN
2	H	82	GLN
2	H	111	GLN
2	H	205	ASN
2	H	206	HIS

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Mol	Chain	Res	Type
2	H	210	ASN
1	A	3	GLN
1	A	6	GLN
1	A	27	GLN
1	A	33	ASN
1	A	42	GLN
1	A	58	ASN
1	A	143	ASN
1	A	152	GLN
1	A	204	GLN
1	A	215	ASN
2	B	53	ASN
2	B	74	ASN
2	B	77	ASN
2	B	82	GLN
2	B	111	GLN
2	B	154	GLN
2	B	205	ASN
2	B	206	HIS

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

4 monosaccharides 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
3	NDG	C	1	3	15,15,15	0.48	0	21,21,21	0.58	0
3	GAL	C	2	3	11,11,12	0.44	0	15,15,17	0.41	0
3	FUC	C	3	3	10,10,11	0.41	0	14,14,16	0.37	0
3	FUC	C	4	3	10,10,11	0.58	0	14,14,16	0.37	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
3	NDG	C	1	3	-	2/6/26/26	0/1/1/1
3	GAL	C	2	3	-	2/2/19/22	0/1/1/1
3	FUC	C	3	3	-	-	0/1/1/1
3	FUC	C	4	3	-	-	0/1/1/1

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (4) torsion outliers are listed below:

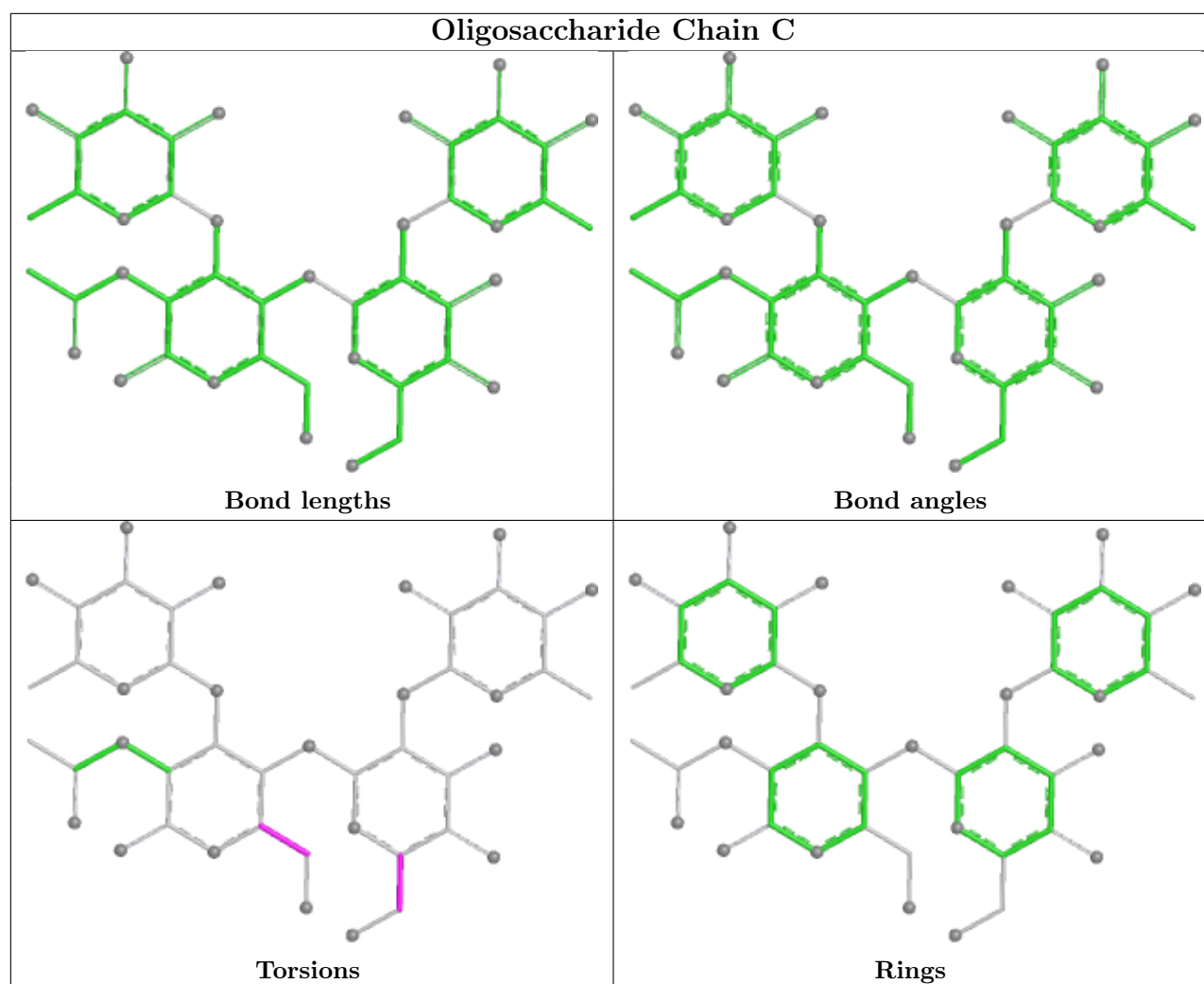
Mol	Chain	Res	Type	Atoms
3	C	1	NDG	O5-C5-C6-O6
3	C	1	NDG	C4-C5-C6-O6
3	C	2	GAL	C4-C5-C6-O6
3	C	2	GAL	O5-C5-C6-O6

There are no ring outliers.

3 monomers are involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	C	2	GAL	1	0
3	C	1	NDG	1	0
3	C	3	FUC	1	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for oligosaccharide.



5.6 Ligand geometry [i](#)

Of 5 ligands modelled in this entry, 4 are monoatomic - leaving 1 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	$\# Z > 2$
5	GOL	B	605	-	5,5,5	4.63	5 (100%)	5,5,5	4.61	3 (60%)

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
5	GOL	B	605	-	-	2/4/4/4	-

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	B	605	GOL	C3-C2	-7.74	1.22	1.51
5	B	605	GOL	O1-C1	4.52	1.61	1.42
5	B	605	GOL	O3-C3	3.53	1.57	1.42
5	B	605	GOL	C1-C2	-2.85	1.40	1.51
5	B	605	GOL	O2-C2	-2.51	1.36	1.43

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	B	605	GOL	O3-C3-C2	7.22	142.87	110.38
5	B	605	GOL	O2-C2-C3	6.70	136.91	109.18
5	B	605	GOL	O1-C1-C2	2.66	122.34	110.38

There are no chirality outliers.

All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	B	605	GOL	C1-C2-C3-O3
5	B	605	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	219/219 (100%)	0.18	6 (2%) 56 51	11, 30, 56, 70	0
1	L	216/219 (98%)	-0.00	4 (1%) 66 62	16, 30, 45, 51	0
2	B	222/222 (100%)	-0.10	4 (1%) 67 64	13, 26, 42, 67	0
2	H	219/222 (98%)	-0.23	2 (0%) 81 78	14, 24, 39, 52	0
All	All	876/882 (99%)	-0.04	16 (1%) 67 64	11, 27, 46, 70	0

All (16) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	219	CYS	4.2
2	H	139	GLY	3.9
1	A	1	ASP	3.6
2	B	222	CYS	3.4
2	B	221	SER	3.4
1	A	100	PRO	3.3
2	B	196	GLY	3.2
1	A	2	ILE	2.7
2	H	219	PRO	2.5
1	A	30	VAL	2.4
1	L	216	ARG	2.3
1	A	217	GLY	2.3
1	L	143	ASN	2.2
2	B	197	THR	2.2
1	L	24	ARG	2.1
1	L	65	SER	2.1

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

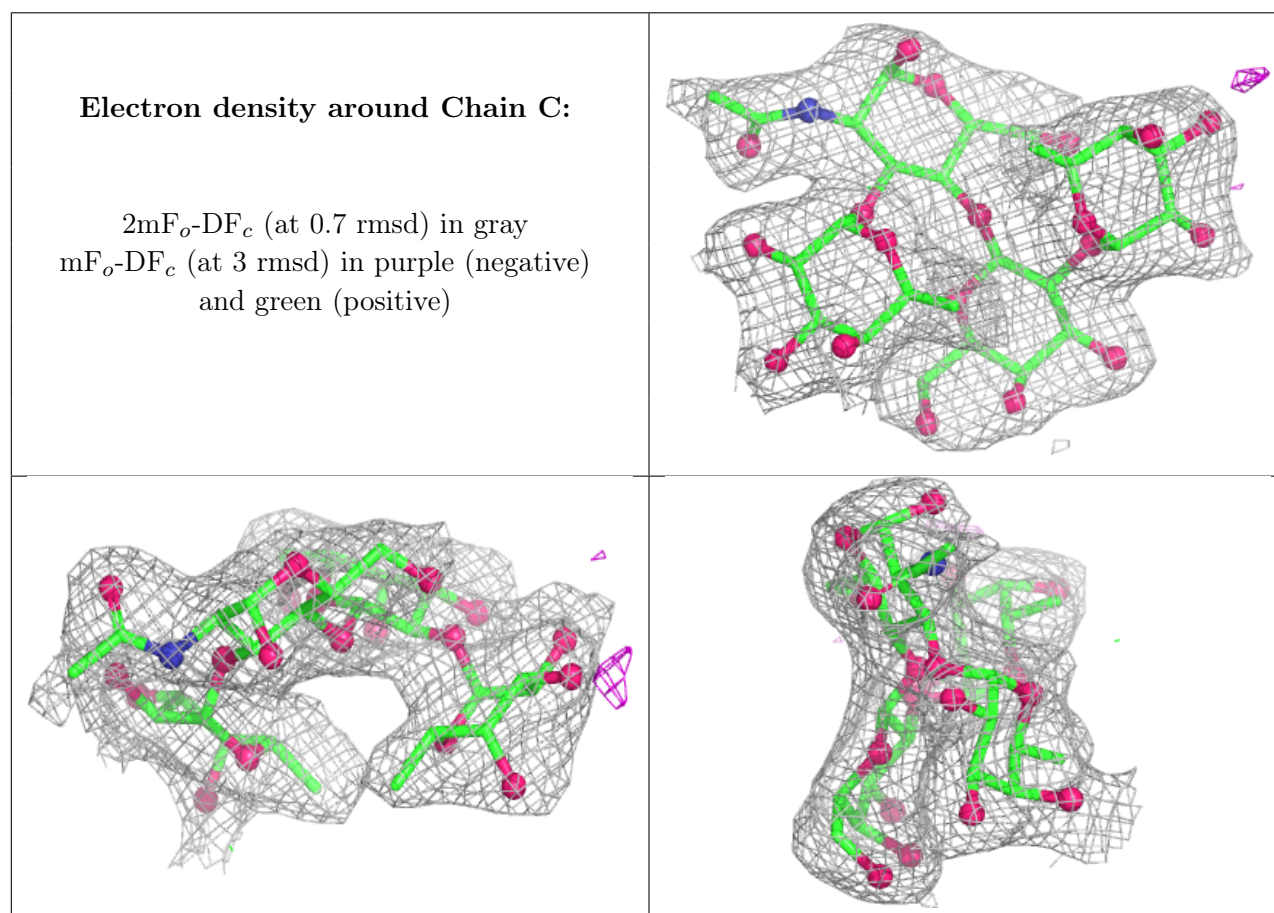
There are no non-standard protein/DNA/RNA residues in this entry.

6.3 Carbohydrates [i](#)

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	NDG	C	1	15/15	-	-	29,31,36,39	0
3	GAL	C	2	11/12	-	-	26,27,30,30	0
3	FUC	C	3	10/11	-	-	29,31,31,33	0
3	FUC	C	4	10/11	-	-	23,26,27,28	0

The following is a graphical depiction of the model fit to experimental electron density for oligosaccharide. Each fit is shown from different orientation to approximate a three-dimensional view.



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
5	GOL	B	605	6/6	0.72	0.15	40,43,44,45	0
4	ZN	A	221	1/1	0.92	0.12	72,72,72,72	0
4	ZN	A	220	1/1	0.98	0.03	24,24,24,24	0
4	ZN	L	220	1/1	0.98	0.05	26,26,26,26	0
4	ZN	L	221	1/1	0.98	0.08	59,59,59,59	0

6.5 Other polymers [i](#)

There are no such residues in this entry.