



Full wwPDB X-ray Structure Validation Report ⓘ

Aug 7, 2020 – 09:20 PM BST

PDB ID : 3CYE
Title : Crystal structure of the native 1918 H1N1 neuraminidase from a crystal with lattice-translocation defects
Authors : Zhu, X.; Xu, X.; Wilson, I.A.
Deposited on : 2008-04-25
Resolution : 1.65 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

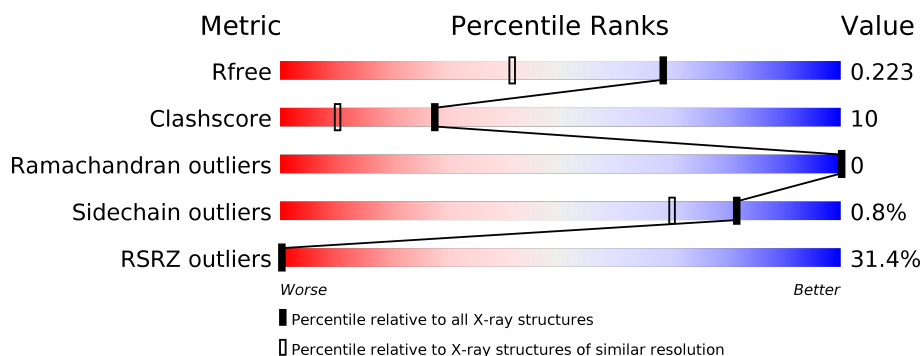
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.65 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	1827 (1.66-1.66)
Clashscore	141614	1931 (1.66-1.66)
Ramachandran outliers	138981	1891 (1.66-1.66)
Sidechain outliers	138945	1891 (1.66-1.66)
RSRZ outliers	127900	1791 (1.66-1.66)

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	1-A	387	<div> <div>60%</div> <div> <div>90%</div> <div>9%</div> </div> </div>
1	1-B	387	<div> <div>57%</div> <div> <div>91%</div> <div>9%</div> </div> </div>
1	2-A	387	<div> <div>60%</div> <div> <div>81%</div> <div>18%</div> </div> </div>
1	2-B	387	<div> <div>57%</div> <div> <div>81%</div> <div>19%</div> </div> </div>
2	1-C	4	<div> <div>75%</div> <div>25%</div> </div>
2	2-C	4	<div> <div>25%</div> <div>75%</div> </div>

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
2	NAG	1-C	2[A]	-	-	-	X
2	MAN	1-C	3[A]	-	-	-	X
2	MAN	1-C	4[A]	-	-	-	X
2	NAG	2-C	2[B]	-	-	-	X
2	MAN	2-C	3[B]	-	-	-	X
2	MAN	2-C	4[B]	-	-	-	X
3	NAG	2-A	1001[B]	-	-	X	-
5	ACT	1-A	3002[A]	-	-	X	-
5	ACT	1-B	3004[A]	-	-	X	-
5	ACT	2-A	3000[B]	-	-	X	-
5	ACT	2-B	3004[B]	-	-	X	-
7	GOL	2-A	1002[B]	-	-	X	-
7	GOL	2-B	1005[B]	-	-	-	X
7	GOL	2-B	1006[B]	-	-	X	-
7	GOL	2-B	1008[B]	-	-	X	-
7	GOL	2-B	1009[B]	-	-	X	-

2 Entry composition [i](#)

There are 8 unique types of molecules in this entry. The entry contains 13710 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 Neuraminidase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	1-A	385	Total	C	N	O	S	0	385	0
			2974	1863	510	578	23			
1	2-A	385	Total	C	N	O	S	0	385	0
			2974	1863	510	578	23			
1	1-B	385	Total	C	N	O	S	0	385	0
			2971	1861	510	577	23			
1	2-B	385	Total	C	N	O	S	0	385	0
			2971	1861	510	577	23			

- Molecule 2 is an oligosaccharide called alpha-D-mannopyranose-(1-3)-alpha-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose.



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
2	1-C	4	Total	C	N	O	0	4	0
			50	28	2	20			
2	2-C	4	Total	C	N	O	0	4	0
			50	28	2	20			

- Molecule 3 is 2-acetamido-2-deoxy-beta-D-glucopyranose (three-letter code: NAG) (formula: C₈H₁₅NO₆).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	1-A	1	Total	C	N	O	0	1
			14	8	1	5		
3	2-A	1	Total	C	N	O	0	1
			14	8	1	5		

- Molecule 4 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	2-A	3	Total	Ca	0	3
			5	5		
4	1-B	2	Total	Ca	0	2
			2	2		
4	1-A	3	Total	Ca	0	3
			3	3		

- Molecule 5 is ACETATE ION (three-letter code: ACT) (formula: C₂H₃O₂).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	1-A	1	Total	C	O	0	1
			4	2	2		
5	1-A	1	Total	C	O	0	1
			4	2	2		
5	1-A	1	Total	C	O	0	1
			4	2	2		
5	2-A	1	Total	C	O	0	1
			4	2	2		
5	1-B	1	Total	C	O	0	1
			4	2	2		
5	2-B	1	Total	C	O	0	1
			4	2	2		
5	1-B	1	Total	C	O	0	1
			4	2	2		

- Molecule 6 is PHOSPHATE ION (three-letter code: PO4) (formula: O₄P).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
6	1-A	1	Total	O	P	0	1
			5	4	1		

- Molecule 7 is GLYCEROL (three-letter code: GOL) (formula: $C_3H_8O_3$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
7	1-A	1	Total	C	O	0	1
			6	3	3		
7	2-A	1	Total	C	O	0	1
			6	3	3		
7	1-A	1	Total	C	O	0	1
			6	3	3		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
7	2-A	1	Total	C	O	0	1
			6	3	3		
7	1-A	1	Total	C	O	0	1
			6	3	3		
7	2-A	1	Total	C	O	0	1
			6	3	3		
7	1-A	1	Total	C	O	0	1
			6	3	3		
7	2-A	1	Total	C	O	0	1
			6	3	3		
7	1-A	1	Total	C	O	0	1
			6	3	3		
7	2-A	1	Total	C	O	0	1
			6	3	3		
7	1-B	1	Total	C	O	0	1
			6	3	3		
7	2-B	1	Total	C	O	0	1
			6	3	3		
7	1-B	1	Total	C	O	0	1
			6	3	3		
7	2-B	1	Total	C	O	0	1
			6	3	3		
7	1-B	1	Total	C	O	0	1
			6	3	3		
7	2-B	1	Total	C	O	0	1
			6	3	3		
7	1-B	1	Total	C	O	0	1
			6	3	3		
7	2-B	1	Total	C	O	0	1
			6	3	3		

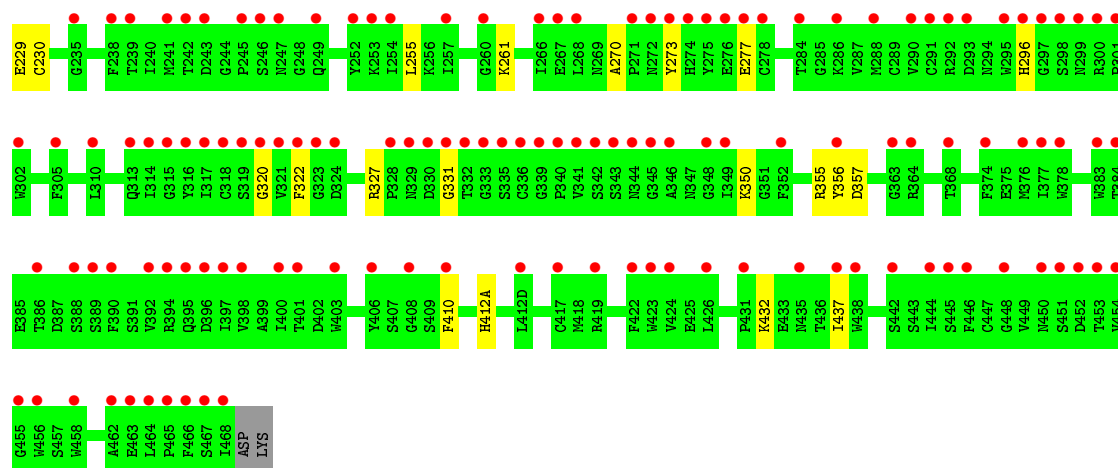
- Molecule 8 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
8	1-A	395	Total	O	0	395
			397	397		
8	2-A	396	Total	O	0	396
			398	398		

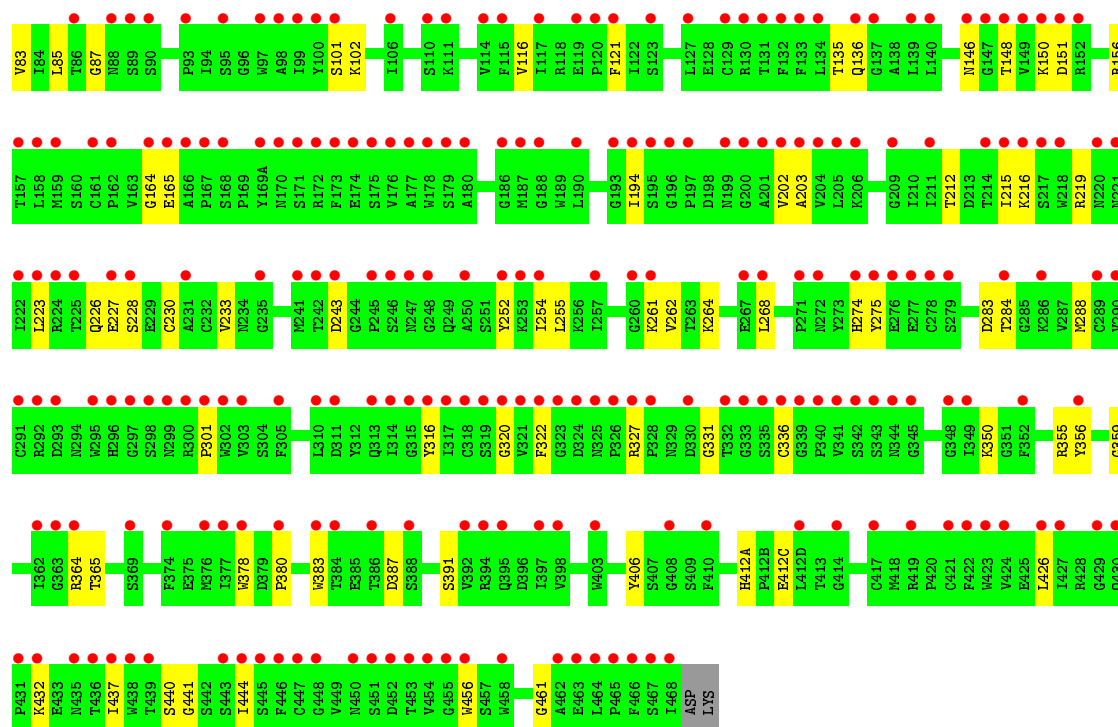
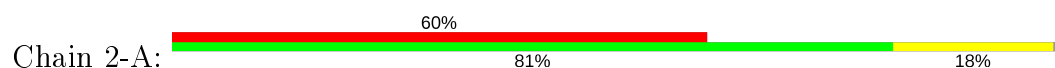
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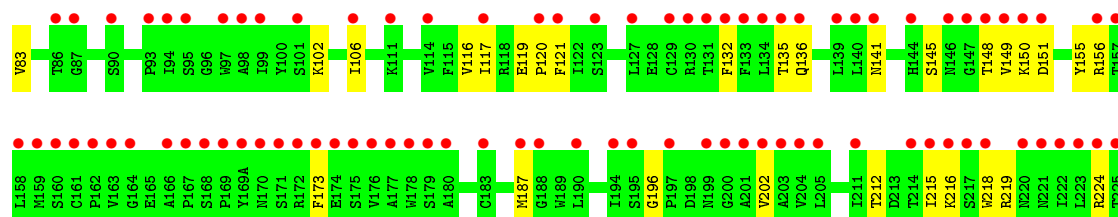
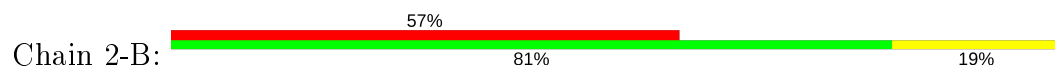
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
8	1-B	359	Total	O	0	359
			359	359		
8	2-B	358	Total	O	0	358
			358	358		

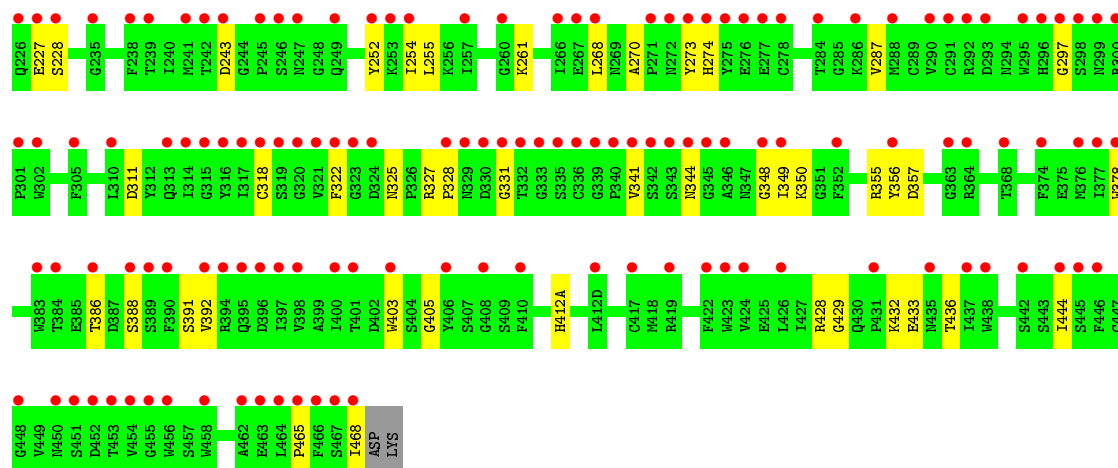


• Molecule 1: Neuraminidase




• Molecule 1: Neuraminidase



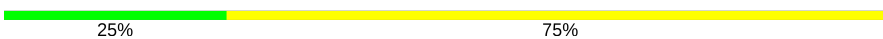


- Molecule 2: alpha-D-mannopyranose-(1-3)-alpha-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain 1-C:  75% 25%



- Molecule 2: alpha-D-mannopyranose-(1-3)-alpha-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain 2-C:  25% 75%



4 Data and refinement statistics

Property	Value	Source
Space group	C 2 2 21	Depositor
Cell constants a, b, c, α , β , γ	117.73Å 138.47Å 117.86Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	44.86 – 1.65 44.88 – 1.64	Depositor EDS
% Data completeness (in resolution range)	97.1 (44.86-1.65) 97.1 (44.88-1.64)	Depositor EDS
R_{merge}	0.09	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.96 (at 1.64Å)	Xtriage
Refinement program	REFMAC	Depositor
R, R_{free}	0.193 , 0.231 0.186 , 0.223	Depositor DCC
R_{free} test set	5652 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	14.5	Xtriage
Anisotropy	0.779	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.18 , 52.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.34$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	13710	wwPDB-VP
Average B, all atoms (Å ²)	14.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 59.31 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 1.7994e-05. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: GOL, NAG, PO4, ACT, CA, MAN

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	1-A	0.72	0/3064	0.75	1/4166 (0.0%)
1	1-B	0.73	0/3058	0.72	0/4158
All	All	0.72	0/6122	0.73	1/8324 (0.0%)

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	1-A	107[A]	ARG	NE-CZ-NH1	5.08	122.84	120.30

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1-A	2974	0	2798	26	0
1	1-B	2971	0	2794	28	0
1	2-A	2974	0	2798	84	0
1	2-B	2971	0	2794	86	0
2	1-C	50	0	43	1	0
2	2-C	50	0	43	4	0
3	1-A	14	0	13	1	0
3	2-A	14	0	13	7	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	1-A	3	0	0	0	0
4	1-B	2	0	0	0	0
4	2-A	5	0	0	0	0
5	1-A	12	0	9	3	0
5	1-B	8	0	6	6	0
5	2-A	8	0	6	3	0
5	2-B	12	0	9	24	0
6	1-A	5	0	0	1	0
6	2-B	5	0	0	0	0
7	1-A	30	0	40	2	0
7	1-B	30	0	40	10	0
7	2-A	30	0	40	7	0
7	2-B	30	0	40	23	0
8	1-A	397	0	0	3	0
8	1-B	359	0	0	3	0
8	2-A	398	0	0	16	0
8	2-B	358	0	0	9	0
All	All	13710	0	11486	236	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 10.

All (236) 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:355[B]:ARG:NH2	7:B:1006[B]:GOL:H32	1.58	1.17
1:B:355[B]:ARG:HH21	7:B:1006[B]:GOL:C3	1.63	1.11
1:B:227[B]:GLU:HG3	5:B:3004[B]:ACT:H3	1.23	1.10
1:B:355[B]:ARG:HH21	7:B:1006[B]:GOL:H32	1.13	1.10
1:A:387[B]:ASP:HA	7:B:1009[B]:GOL:C3	1.86	1.05
1:A:136[B]:GLN:HB2	8:A:3296[B]:HOH:O	1.58	1.04
1:A:148[B]:THR:HG21	3:A:1001[B]:NAG:H5	1.40	1.04
1:A:227[B]:GLU:CD	5:B:3002[B]:ACT:H1	1.79	1.02
1:A:387[B]:ASP:HA	7:B:1009[B]:GOL:H31	1.39	1.01
1:A:227[B]:GLU:OE2	5:B:3002[B]:ACT:H1	1.63	0.99
1:B:355[B]:ARG:NH2	7:B:1006[B]:GOL:C3	2.23	0.98
1:A:227[B]:GLU:CG	5:B:3002[B]:ACT:H1	1.96	0.96
1:B:102[B]:LYS:HG3	1:B:444[B]:ILE:HG22	1.48	0.95
1:B:148[B]:THR:HG21	2:C:1[B]:NAG:H5	1.46	0.95
1:A:336[B]:CYS:HB2	8:A:3170[B]:HOH:O	1.67	0.94
5:B:3002[B]:ACT:C	5:B:3003[B]:ACT:H3	1.99	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:227[B]:GLU:HG3	5:B:3002[B]:ACT:H1	1.51	0.91
1:B:227[B]:GLU:CG	5:B:3004[B]:ACT:H3	2.03	0.88
1:A:83[B]:VAL:HA	8:A:3371[B]:HOH:O	1.72	0.87
1:A:227[A]:GLU:OE2	5:A:3002[A]:ACT:H1	1.74	0.85
1:A:165[B]:GLU:OE2	7:B:1005[B]:GOL:H12	1.74	0.85
1:B:215[B]:ILE:CD1	1:B:255[B]:LEU:CD1	2.56	0.84
1:B:215[B]:ILE:CD1	1:B:255[B]:LEU:HD13	2.08	0.83
1:A:148[B]:THR:HG21	3:A:1001[B]:NAG:C5	2.09	0.83
1:A:387[B]:ASP:HA	7:B:1009[B]:GOL:H32	1.61	0.82
1:A:412(A)[B]:HIS:HD2	8:A:3013[B]:HOH:O	1.64	0.79
1:B:227[B]:GLU:OE2	5:B:3004[B]:ACT:H2	1.82	0.79
1:B:215[B]:ILE:HD11	1:B:255[B]:LEU:HD13	1.63	0.79
1:A:227[B]:GLU:OE2	5:B:3002[B]:ACT:CH3	2.30	0.79
1:A:227[B]:GLU:HG3	5:B:3002[B]:ACT:CH3	2.13	0.79
5:B:3002[B]:ACT:O	5:B:3003[B]:ACT:H3	1.84	0.77
1:B:83[B]:VAL:O	1:B:187[B]:MET:HG3	1.85	0.77
1:A:254[B]:ILE:HD11	1:A:268[B]:LEU:HD21	1.65	0.76
1:B:102[B]:LYS:HG3	1:B:444[B]:ILE:CG2	2.16	0.75
1:B:150[B]:LYS:NZ	8:B:3329[B]:HOH:O	2.22	0.73
1:B:254[B]:ILE:HD11	1:B:268[B]:LEU:HD21	1.71	0.73
1:A:151[B]:ASP:O	1:A:156[B]:ARG:HD2	1.90	0.72
1:A:215[B]:ILE:CD1	1:A:255[B]:LEU:HD13	2.19	0.72
1:A:215[B]:ILE:HD13	1:A:255[B]:LEU:CD1	2.19	0.72
1:A:356[B]:TYR:CD2	7:A:3005[B]:GOL:H2	2.25	0.72
1:A:212[B]:THR:O	1:A:261[B]:LYS:NZ	2.23	0.71
1:A:355[B]:ARG:NH1	7:A:1003[B]:GOL:O3	2.23	0.71
1:B:227[B]:GLU:OE2	5:B:3004[B]:ACT:CH3	2.38	0.70
1:A:215[B]:ILE:HD13	1:A:255[B]:LEU:HD11	1.72	0.70
1:A:226[B]:GLN:HE22	1:A:230[B]:CYS:HA	1.56	0.70
1:B:148[B]:THR:HG21	2:C:1[B]:NAG:C5	2.21	0.69
1:A:432[B]:LYS:HE3	8:A:3252[B]:HOH:O	1.91	0.69
1:B:355[A]:ARG:HH21	7:B:1006[A]:GOL:H32	1.58	0.69
5:A:3000[B]:ACT:H2	8:A:3253[B]:HOH:O	1.93	0.69
8:A:3346[B]:HOH:O	1:B:149[B]:VAL:HG21	1.92	0.68
1:B:151[B]:ASP:O	1:B:156[B]:ARG:HD2	1.95	0.67
7:A:1002[B]:GOL:H32	1:B:356[B]:TYR:CD2	2.29	0.67
1:B:135[B]:THR:O	1:B:156[B]:ARG:HA	1.94	0.67
1:B:212[B]:THR:O	1:B:261[B]:LYS:HD3	1.94	0.67
1:B:357[A]:ASP:H	7:B:1007[A]:GOL:H12	1.59	0.66
1:B:215[B]:ILE:CD1	1:B:255[B]:LEU:HD11	2.27	0.65
1:B:412(A)[B]:HIS:HD2	8:B:3134[B]:HOH:O	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A:3001[B]:ACT:H2	1:B:224[B]:ARG:HB3	1.77	0.64
1:A:212[B]:THR:C	1:A:261[B]:LYS:HZ2	2.01	0.64
1:A:412(A)[A]:HIS:HD2	8:A:3013[A]:HOH:O	1.79	0.63
1:B:227[B]:GLU:HG3	5:B:3004[B]:ACT:CH3	2.16	0.63
1:A:264[B]:LYS:HD2	8:A:3331[B]:HOH:O	1.99	0.63
1:B:141[B]:ASN:O	1:B:468[B]:ILE:HD12	1.99	0.63
1:B:287[B]:VAL:HG23	8:B:3377[B]:HOH:O	1.99	0.62
1:A:102[B]:LYS:HG3	1:A:444[B]:ILE:HG22	1.81	0.62
1:A:135[B]:THR:O	1:A:156[B]:ARG:HA	2.00	0.61
1:A:215[B]:ILE:CD1	1:A:255[B]:LEU:CD1	2.78	0.61
1:B:355[B]:ARG:NH2	7:B:1006[B]:GOL:O3	2.32	0.61
1:A:226[A]:GLN:HE22	1:A:230[A]:CYS:HA	1.65	0.60
1:B:215[B]:ILE:HD13	1:B:255[B]:LEU:HD11	1.83	0.60
5:B:3004[B]:ACT:H2	7:B:1008[B]:GOL:H12	1.83	0.60
1:B:119[B]:GLU:OE1	7:B:1008[B]:GOL:H12	2.02	0.59
1:B:252[B]:TYR:OH	1:B:274[B]:HIS:HA	2.02	0.59
7:A:1002[B]:GOL:H11	1:B:378[B]:TRP:CZ3	2.38	0.59
1:B:355[B]:ARG:HH22	7:B:1006[B]:GOL:H32	1.65	0.59
1:B:136[B]:GLN:HB2	8:B:3207[B]:HOH:O	2.02	0.59
1:B:331[B]:GLY:O	1:B:388[B]:SER:HB3	2.03	0.59
5:B:3004[A]:ACT:H1	7:B:1008[A]:GOL:H2	1.85	0.59
1:B:429[B]:GLY:O	1:B:433[B]:GLU:HB2	2.03	0.58
1:B:212[B]:THR:O	1:B:261[B]:LYS:NZ	2.32	0.58
5:B:3004[B]:ACT:H2	7:B:1008[B]:GOL:C1	2.34	0.57
1:A:146[A]:ASN:O	1:A:149[A]:VAL:HG23	2.03	0.57
1:B:357[B]:ASP:H	7:B:1007[B]:GOL:H12	1.68	0.57
1:B:355[A]:ARG:NH2	7:B:1006[A]:GOL:H32	2.18	0.57
1:A:252[B]:TYR:CD1	1:A:275[B]:TYR:HB2	2.40	0.57
1:B:412(A)[A]:HIS:HD2	8:B:3017[A]:HOH:O	1.88	0.56
1:A:437[B]:ILE:HG21	3:A:1001[B]:NAG:H82	1.87	0.56
1:A:215[B]:ILE:HD11	1:A:262[B]:VAL:HG21	1.87	0.56
1:A:254[B]:ILE:HD11	1:A:268[B]:LEU:CD2	2.35	0.56
1:A:387[B]:ASP:CA	7:B:1009[B]:GOL:H31	2.25	0.56
1:A:148[B]:THR:HG21	3:A:1001[B]:NAG:C1	2.36	0.56
1:B:228[B]:SER:HB3	1:B:350[B]:LYS:HE2	1.86	0.56
2:C:2[B]:NAG:O3	2:C:3[B]:MAN:H61	2.06	0.56
7:A:1004[B]:GOL:O1	5:B:3004[B]:ACT:OXT	2.22	0.56
1:A:336[A]:CYS:HB2	8:A:3171[A]:HOH:O	2.05	0.55
1:A:165[B]:GLU:OE2	7:B:1005[B]:GOL:C1	2.49	0.55
1:A:364[B]:ARG:HG3	1:A:365[B]:THR:O	2.06	0.55
5:B:3004[B]:ACT:CH3	7:B:1008[B]:GOL:H12	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:378[B]:TRP:CD1	1:B:391[B]:SER:OG	2.60	0.55
1:A:151[B]:ASP:O	1:A:156[B]:ARG:CD	2.54	0.54
1:A:254[B]:ILE:CD1	1:A:268[B]:LEU:HD21	2.35	0.54
1:A:87[B]:GLY:HA3	1:A:233[B]:VAL:HG22	1.90	0.54
1:B:436[B]:THR:HG22	1:B:465[B]:PRO:HB3	1.89	0.54
1:A:215[A]:ILE:HD11	1:A:262[A]:VAL:HG21	1.89	0.54
1:B:356[A]:TYR:CD2	7:B:1002[A]:GOL:H32	2.42	0.54
1:A:83[A]:VAL:HA	8:A:3372[A]:HOH:O	2.08	0.54
1:B:136[B]:GLN:CB	8:B:3207[B]:HOH:O	2.55	0.54
1:B:146[A]:ASN:O	1:B:149[A]:VAL:HG23	2.08	0.54
1:A:322[B]:PHE:HB2	1:A:327[B]:ARG:HD2	1.88	0.53
1:A:136[B]:GLN:NE2	1:A:156[B]:ARG:HG3	2.23	0.53
1:A:150[B]:LYS:NZ	8:A:3329[B]:HOH:O	2.39	0.53
1:A:252[B]:TYR:OH	1:A:274[B]:HIS:HA	2.09	0.53
1:B:357[A]:ASP:N	7:B:1007[A]:GOL:H12	2.24	0.53
1:B:212[A]:THR:O	1:B:261[A]:LYS:HD3	2.08	0.53
1:B:322[B]:PHE:HB2	1:B:327[B]:ARG:HD2	1.91	0.53
1:B:215[B]:ILE:HD13	1:B:255[B]:LEU:CD1	2.35	0.52
1:A:116[B]:VAL:HG13	1:A:440[B]:SER:HB2	1.91	0.52
8:A:3323[B]:HOH:O	5:B:3002[B]:ACT:H3	2.08	0.52
1:A:350[B]:LYS:HB3	1:A:406[B]:TYR:CG	2.45	0.52
1:B:270[B]:ALA:HB1	1:B:273[B]:TYR:HB2	1.91	0.52
1:B:151[A]:ASP:O	1:B:156[A]:ARG:HD2	2.10	0.52
1:B:151[B]:ASP:O	1:B:156[B]:ARG:CD	2.58	0.51
1:B:227[B]:GLU:CG	5:B:3004[B]:ACT:CH3	2.82	0.51
1:B:277[A]:GLU:OE2	5:B:3004[A]:ACT:OXT	2.28	0.51
1:B:349[B]:ILE:HD11	1:B:405[B]:GLY:C	2.29	0.51
1:A:121[B]:PHE:CG	1:A:228[B]:SER:HA	2.46	0.51
1:A:355[B]:ARG:NH2	8:A:3205[B]:HOH:O	2.43	0.51
1:A:456[B]:TRP:CE3	1:B:196[B]:GLY:HA2	2.46	0.50
1:B:318[B]:CYS:O	1:B:386[B]:THR:HA	2.11	0.50
1:B:357[A]:ASP:H	7:B:1007[A]:GOL:C1	2.24	0.50
1:B:228[A]:SER:HB3	1:B:350[A]:LYS:HE2	1.91	0.50
1:B:121[B]:PHE:CG	1:B:228[B]:SER:HA	2.46	0.50
1:A:102[B]:LYS:HG3	1:A:444[B]:ILE:CG2	2.42	0.50
1:A:151[A]:ASP:O	1:A:156[A]:ARG:HD2	2.12	0.49
1:B:218[B]:TRP:CD1	1:B:219[B]:ARG:HG2	2.47	0.49
1:A:85[B]:LEU:CD2	1:A:412(C)[B]:GLU:HB2	2.42	0.49
1:A:146[B]:ASN:OD1	1:A:148[B]:THR:HG23	2.12	0.49
1:B:119[B]:GLU:OE1	7:B:1008[B]:GOL:C1	2.60	0.49
1:A:136[B]:GLN:NE2	1:A:156[B]:ARG:HD2	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:215[A]:ILE:HD13	1:A:255[A]:LEU:CD1	2.43	0.48
1:B:322[A]:PHE:HB2	1:B:327[A]:ARG:HD2	1.95	0.48
1:A:150[B]:LYS:HB3	8:A:3315[B]:HOH:O	2.13	0.48
1:B:270[A]:ALA:HB1	1:B:273[A]:TYR:HB2	1.95	0.47
1:B:357[B]:ASP:N	7:B:1007[B]:GOL:H12	2.29	0.47
1:A:148[B]:THR:CG2	3:A:1001[B]:NAG:C1	2.93	0.47
1:A:116[A]:VAL:HG21	1:A:145[A]:SER:HB2	1.96	0.47
1:A:212[B]:THR:HB	1:A:261[B]:LYS:NZ	2.29	0.47
1:A:215[A]:ILE:HD13	1:A:255[A]:LEU:HD11	1.96	0.47
1:B:227[A]:GLU:HG3	5:B:3004[A]:ACT:H3	1.96	0.47
1:B:325[B]:ASN:O	1:B:348[B]:GLY:HA2	2.15	0.47
1:B:328[B]:PRO:HD3	1:B:344[B]:ASN:HB2	1.95	0.47
1:A:212[B]:THR:CA	1:A:261[B]:LYS:HZ2	2.26	0.47
1:B:357[B]:ASP:H	7:B:1007[B]:GOL:C1	2.28	0.47
1:B:150[B]:LYS:HB3	8:B:3398[B]:HOH:O	2.15	0.47
1:B:429[B]:GLY:O	1:B:433[B]:GLU:N	2.43	0.47
1:B:116[A]:VAL:HG21	1:B:145[A]:SER:HB2	1.97	0.47
1:B:219[B]:ARG:HB2	1:B:243[B]:ASP:CG	2.35	0.47
1:A:320[B]:GLY:HA3	1:A:331[B]:GLY:O	2.15	0.47
1:A:164[B]:GLY:HA3	1:B:173[B]:PHE:CG	2.49	0.46
1:B:432[A]:LYS:HE3	8:B:3249[A]:HOH:O	2.14	0.46
1:B:202[B]:VAL:HG22	1:B:216[B]:LYS:HG3	1.98	0.46
5:B:3002[B]:ACT:C	5:B:3003[B]:ACT:CH3	2.85	0.46
1:B:229[A]:GLU:OE2	1:B:410[A]:PHE:HA	2.16	0.46
1:A:202[B]:VAL:HG22	1:A:216[B]:LYS:HG3	1.98	0.46
5:B:3004[A]:ACT:CH3	7:B:1008[A]:GOL:H12	2.46	0.46
1:B:148[B]:THR:HG1	2:C:1[B]:NAG:C1	2.29	0.46
1:A:212[B]:THR:CA	1:A:261[B]:LYS:NZ	2.79	0.46
1:B:227[B]:GLU:CD	5:B:3004[B]:ACT:CH3	2.85	0.46
1:B:378[B]:TRP:HB3	1:B:392[B]:VAL:HB	1.96	0.46
1:A:387[A]:ASP:HA	7:A:1009[A]:GOL:H31	1.98	0.45
1:B:437[A]:ILE:HG21	2:C:1[A]:NAG:H82	1.99	0.45
1:B:254[B]:ILE:CD1	1:B:268[B]:LEU:HD21	2.43	0.45
1:B:121[A]:PHE:CG	1:B:228[A]:SER:HA	2.52	0.45
7:A:1002[B]:GOL:C3	1:B:356[B]:TYR:CD2	2.98	0.45
1:B:378[B]:TRP:HD1	1:B:391[B]:SER:HG	1.63	0.45
1:B:403[B]:TRP:CH2	1:B:432[B]:LYS:HD2	2.52	0.45
1:A:276[A]:GLU:OE1	6:A:1000[A]:PO4:O3	2.35	0.45
5:B:3004[B]:ACT:CH3	7:B:1008[B]:GOL:C1	2.94	0.45
1:A:215[B]:ILE:HD11	1:A:255[B]:LEU:HD13	1.96	0.44
1:A:121[A]:PHE:CG	1:A:228[A]:SER:HA	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:218[A]:TRP:CD1	1:B:219[A]:ARG:HG2	2.53	0.44
1:A:412(A)[B]:HIS:HE1	8:A:3010[B]:HOH:O	1.99	0.44
1:A:437[B]:ILE:CG2	3:A:1001[B]:NAG:H82	2.48	0.44
1:A:387[A]:ASP:HA	7:A:1009[A]:GOL:C3	2.48	0.44
1:A:135[A]:THR:O	1:A:156[A]:ARG:HA	2.18	0.44
1:A:270[A]:ALA:HB1	1:A:273[A]:TYR:HB2	2.00	0.44
1:B:320[A]:GLY:HA3	1:B:331[A]:GLY:O	2.18	0.44
7:A:1002[B]:GOL:H11	1:B:378[B]:TRP:CH2	2.53	0.44
5:A:3000[B]:ACT:OXT	8:A:3092[B]:HOH:O	2.21	0.44
1:B:106[B]:ILE:HD13	1:B:428[B]:ARG:HB2	2.00	0.43
1:B:116[B]:VAL:HG21	1:B:145[B]:SER:HB2	2.00	0.43
1:A:101[B]:SER:HA	1:B:173[B]:PHE:CZ	2.53	0.43
1:A:194[B]:ILE:HG12	1:A:203[B]:ALA:HB2	2.00	0.43
1:A:219[B]:ARG:HB2	1:A:243[B]:ASP:CG	2.39	0.43
1:A:426[B]:LEU:O	1:A:441[B]:GLY:HA2	2.18	0.43
1:A:227[B]:GLU:OE2	5:B:3002[B]:ACT:C	2.67	0.42
1:A:283[B]:ASP:O	1:A:284[B]:THR:C	2.57	0.42
1:A:331[B]:GLY:C	7:B:1009[B]:GOL:H12	2.39	0.42
1:B:378[B]:TRP:HD1	1:B:391[B]:SER:OG	2.02	0.42
1:B:83[B]:VAL:O	1:B:187[B]:MET:CG	2.63	0.42
1:A:355[B]:ARG:NE	8:A:3205[B]:HOH:O	2.51	0.42
1:A:461[B]:GLY:HA3	1:B:155[B]:TYR:CE1	2.54	0.42
1:A:215[A]:ILE:CD1	1:A:255[A]:LEU:HD13	2.50	0.42
1:A:349[A]:ILE:HD12	1:A:371[A]:ARG:HG2	2.02	0.42
1:A:227[A]:GLU:CD	5:A:3002[A]:ACT:H1	2.37	0.42
1:B:311[B]:ASP:OD2	8:B:3385[B]:HOH:O	2.21	0.42
1:B:355[A]:ARG:HH21	7:B:1006[A]:GOL:C3	2.30	0.41
5:B:3004[B]:ACT:H2	7:B:1008[B]:GOL:O1	2.20	0.41
8:A:3346[B]:HOH:O	1:B:149[B]:VAL:CG2	2.61	0.41
1:A:322[A]:PHE:HB2	1:A:327[A]:ARG:HD2	2.02	0.41
1:B:412(A)[A]:HIS:HE1	8:B:3005[A]:HOH:O	2.03	0.41
1:A:320[A]:GLY:HA3	1:A:331[A]:GLY:O	2.21	0.41
1:A:350[B]:LYS:HB3	1:A:406[B]:TYR:CD2	2.56	0.41
1:B:120[B]:PRO:HA	1:B:132[B]:PHE:O	2.21	0.41
1:B:227[A]:GLU:OE2	5:B:3004[A]:ACT:CH3	2.68	0.41
1:B:297[B]:GLY:HA2	1:B:341[B]:VAL:O	2.21	0.41
1:B:215[A]:ILE:HD13	1:B:255[A]:LEU:CD1	2.51	0.41
1:A:148[B]:THR:HG21	3:A:1001[B]:NAG:O5	2.20	0.41
1:A:288[B]:MET:CE	1:A:383[B]:TRP:CZ2	3.04	0.41
1:A:194[B]:ILE:HD13	1:A:223[B]:LEU:HG	2.02	0.41
1:B:254[B]:ILE:HD11	1:B:268[B]:LEU:CD2	2.48	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:215[B]:ILE:HD12	1:B:255[B]:LEU:CD1	2.48	0.41
1:B:215[A]:ILE:CD1	1:B:255[A]:LEU:HD13	2.51	0.40
1:A:228[A]:SER:HB3	1:A:350[A]:LYS:HE2	2.03	0.40
1:B:83[A]:VAL:CG2	1:B:83[A]:VAL:O	2.69	0.40
1:A:212[B]:THR:CB	1:A:261[B]:LYS:NZ	2.84	0.40
1:A:359[B]:GLY:CA	1:A:380[B]:PRO:O	2.69	0.40
1:B:261[B]:LYS:CG	8:B:3297[B]:HOH:O	2.69	0.40
1:A:378[A]:TRP:HB3	1:A:392[A]:VAL:HB	2.03	0.40
5:B:3004[A]:ACT:OXT	7:B:1004[A]:GOL:O1	2.22	0.40
1:A:378[B]:TRP:HD1	1:A:391[B]:SER:OG	2.04	0.40
1:B:117[B]:ILE:HD11	8:B:3237[B]:HOH:O	2.21	0.40
1:A:148[A]:THR:HG21	3:A:1001[A]:NAG:H5	2.04	0.40
1:A:277[A]:GLU:OE2	5:A:3002[A]:ACT:O	2.39	0.40
1:A:136[B]:GLN:NE2	1:A:156[B]:ARG:CG	2.84	0.40
1:A:301[B]:PRO:HB3	1:A:316[B]:TYR:CZ	2.56	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	1-A	386/387 (100%)	370 (96%)	16 (4%)	0	100	100
1	1-B	385/387 (100%)	368 (96%)	17 (4%)	0	100	100
1	2-A	386/387 (100%)	361 (94%)	25 (6%)	0	100	100
1	2-B	385/387 (100%)	365 (95%)	20 (5%)	0	100	100
All	All	1542/1548 (100%)	1464 (95%)	78 (5%)	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	1-A	333/332 (100%)	331 (99%)	2 (1%)	86	76
1	1-B	332/332 (100%)	329 (99%)	3 (1%)	78	66
All	All	665/664 (100%)	660 (99%)	5 (1%)	81	70

All (5) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	1-A	175[A]	SER
1	1-A	296[A]	HIS
1	1-B	83[A]	VAL
1	1-B	230[A]	CYS
1	1-B	296[A]	HIS

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (6) such sidechains are listed below:

Mol	Chain	Res	Type
1	1-A	226[A]	GLN
1	1-A	412(A)[A]	HIS
1	1-A	435[A]	ASN
1	1-B	136[A]	GLN
1	1-B	412(A)[A]	HIS
1	1-B	435[A]	ASN

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 ⓘ

8 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$
2	NAG	1-C	1[A]	1,2	14,14,15	0.47	0	17,19,21	1.00	1 (5%)
2	NAG	1-C	2[A]	2	14,14,15	0.58	0	17,19,21	1.06	1 (5%)
2	MAN	1-C	3[A]	2	11,11,12	0.64	0	15,15,17	1.43	3 (20%)
2	MAN	1-C	4[A]	2	11,11,12	0.52	0	15,15,17	1.30	1 (6%)

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	NAG	1-C	1[A]	1,2	-	0/6/23/26	0/1/1/1
2	NAG	1-C	2[A]	2	-	4/6/23/26	0/1/1/1
2	MAN	1-C	3[A]	2	-	2/2/19/22	0/1/1/1
2	MAN	1-C	4[A]	2	-	2/2/19/22	0/1/1/1

There are no bond length outliers.

All (6) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	1-C	4[A]	MAN	C1-O5-C5	4.18	117.85	112.19
2	1-C	3[A]	MAN	C1-C2-C3	3.06	113.43	109.67
2	1-C	2[A]	NAG	C4-C3-C2	3.03	115.46	111.02
2	1-C	3[A]	MAN	O5-C5-C6	2.87	111.70	107.20
2	1-C	3[A]	MAN	C1-O5-C5	2.68	115.82	112.19
2	1-C	1[A]	NAG	C1-O5-C5	2.01	114.92	112.19

There are no chirality outliers.

All (8) torsion outliers are listed below:

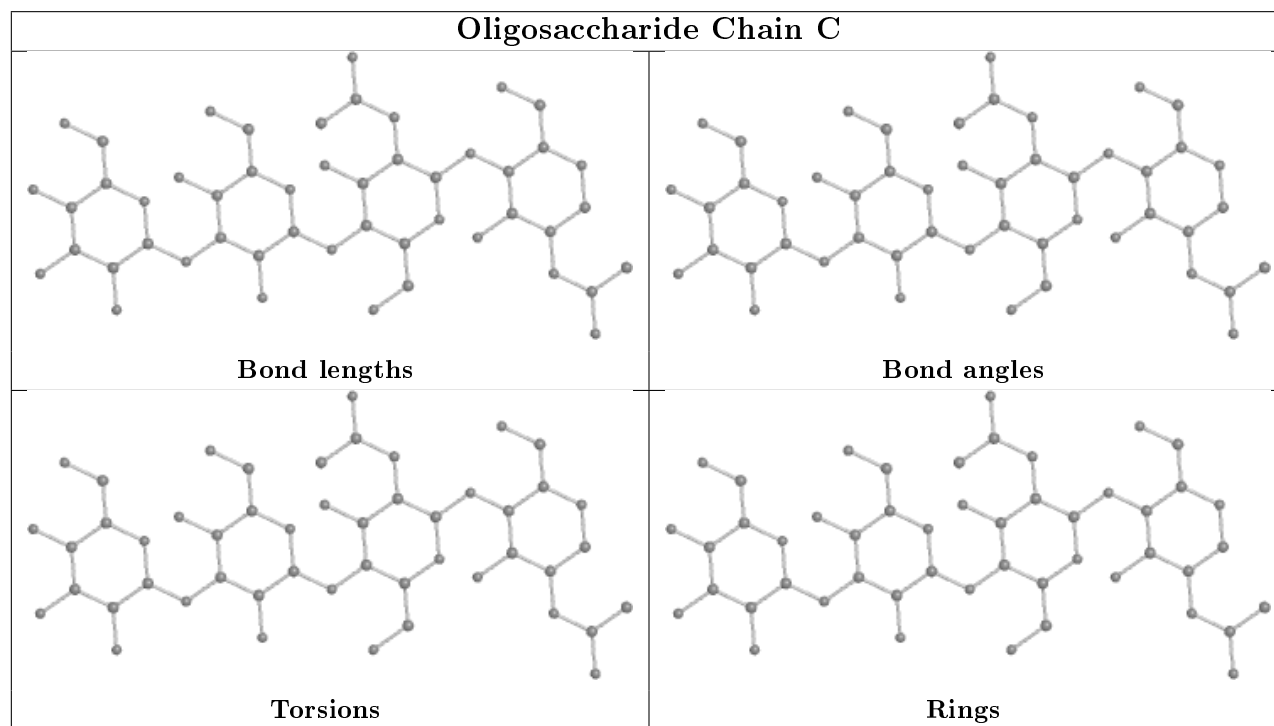
Mol	Chain	Res	Type	Atoms
2	1-C	2[A]	NAG	C8-C7-N2-C2
2	1-C	2[A]	NAG	O7-C7-N2-C2
2	1-C	2[A]	NAG	O5-C5-C6-O6
2	1-C	3[A]	MAN	C4-C5-C6-O6
2	1-C	2[A]	NAG	C4-C5-C6-O6
2	1-C	4[A]	MAN	C4-C5-C6-O6
2	1-C	4[A]	MAN	O5-C5-C6-O6
2	1-C	3[A]	MAN	O5-C5-C6-O6

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	1-C	1[A]	NAG	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 39 ligands modelled in this entry, 9 are monoatomic - leaving 30 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
7	GOL	1-A	1003[A]	-	5,5,5	0.34	0	5,5,5	0.23	0
3	NAG	1-A	1001[A]	1	14,14,15	0.48	0	17,19,21	1.04	1 (5%)
7	GOL	1-A	3005[A]	-	5,5,5	0.48	0	5,5,5	0.53	0
7	GOL	1-B	1002[A]	-	5,5,5	0.31	0	5,5,5	0.44	0
5	ACT	1-B	3001[A]	-	1,3,3	0.77	0	0,3,3	0.00	-
6	PO4	1-A	1000[A]	-	4,4,4	0.79	0	6,6,6	0.78	0
5	ACT	1-A	3000[A]	-	1,3,3	1.68	0	0,3,3	0.00	-
7	GOL	1-A	3004[A]	-	5,5,5	0.35	0	5,5,5	0.15	0
7	GOL	1-B	1008[A]	-	5,5,5	0.44	0	5,5,5	0.09	0
7	GOL	1-B	1006[A]	-	5,5,5	0.31	0	5,5,5	0.44	0
5	ACT	1-B	3004[A]	-	1,3,3	0.08	0	0,3,3	0.00	-
7	GOL	1-A	1009[A]	-	5,5,5	0.38	0	5,5,5	0.49	0
5	ACT	1-A	3003[A]	-	1,3,3	0.88	0	0,3,3	0.00	-
7	GOL	1-B	1004[A]	-	5,5,5	0.44	0	5,5,5	0.42	0
7	GOL	1-A	1005[A]	-	5,5,5	0.37	0	5,5,5	0.35	0
7	GOL	1-B	1007[A]	-	5,5,5	0.39	0	5,5,5	0.54	0
5	ACT	1-A	3002[A]	-	1,3,3	0.94	0	0,3,3	0.00	-

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
7	GOL	1-A	1003[A]	-	-	2/4/4/4	-
3	NAG	1-A	1001[A]	1	-	2/6/23/26	0/1/1/1
7	GOL	1-A	3005[A]	-	-	2/4/4/4	-
7	GOL	1-B	1002[A]	-	-	4/4/4/4	-
7	GOL	1-A	3004[A]	-	-	2/4/4/4	-
7	GOL	1-B	1008[A]	-	-	0/4/4/4	-
7	GOL	1-B	1006[A]	-	-	1/4/4/4	-
7	GOL	1-A	1009[A]	-	-	2/4/4/4	-
7	GOL	1-B	1004[A]	-	-	2/4/4/4	-
7	GOL	1-A	1005[A]	-	-	2/4/4/4	-
7	GOL	1-B	1007[A]	-	-	0/4/4/4	-

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed($^{\circ}$)	Ideal($^{\circ}$)
3	1-A	1001[A]	NAG	C1-O5-C5	2.86	116.06	112.19

There are no chirality outliers.

All (19) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
7	1-B	1002[A]	GOL	O1-C1-C2-C3
7	1-A	1005[A]	GOL	O1-C1-C2-C3
7	1-A	1005[A]	GOL	O1-C1-C2-O2
7	1-A	3005[A]	GOL	C1-C2-C3-O3
7	1-B	1002[A]	GOL	C1-C2-C3-O3
7	1-A	3004[A]	GOL	C1-C2-C3-O3
7	1-A	1003[A]	GOL	O1-C1-C2-C3
7	1-B	1004[A]	GOL	C1-C2-C3-O3
7	1-B	1006[A]	GOL	C1-C2-C3-O3
7	1-B	1002[A]	GOL	O1-C1-C2-O2
7	1-B	1004[A]	GOL	O2-C2-C3-O3
3	1-A	1001[A]	NAG	C4-C5-C6-O6
7	1-A	3004[A]	GOL	O2-C2-C3-O3
3	1-A	1001[A]	NAG	O5-C5-C6-O6
7	1-A	3005[A]	GOL	O2-C2-C3-O3
7	1-B	1002[A]	GOL	O2-C2-C3-O3
7	1-A	1009[A]	GOL	O1-C1-C2-O2
7	1-A	1009[A]	GOL	O1-C1-C2-C3
7	1-A	1003[A]	GOL	O1-C1-C2-O2

There are no ring outliers.

10 monomers are involved in 20 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	1-A	1001[A]	NAG	1	0
7	1-B	1002[A]	GOL	1	0
6	1-A	1000[A]	PO4	1	0
7	1-B	1008[A]	GOL	2	0
7	1-B	1006[A]	GOL	3	0
5	1-B	3004[A]	ACT	6	0
7	1-A	1009[A]	GOL	2	0
7	1-B	1004[A]	GOL	1	0
7	1-B	1007[A]	GOL	3	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	1-A	3002[A]	ACT	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	1-A	385/387 (99%)	3.42	231 (60%) 0 0	5, 10, 18, 27	385 (100%)
1	1-B	385/387 (99%)	3.16	221 (57%) 0 0	5, 10, 18, 27	385 (100%)
1	2-A	385/387 (99%)	3.42	231 (60%) 0 0	5, 10, 18, 27	385 (100%)
1	2-B	385/387 (99%)	3.16	221 (57%) 0 0	5, 10, 18, 27	385 (100%)
All	All	1540/1548 (99%)	3.29	904 (58%) 0 0	5, 10, 18, 27	1540 (100%)

All (904) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	1-A	317[A]	ILE	21.7
1	2-A	317[B]	ILE	21.7
1	1-A	336[A]	CYS	20.9
1	2-A	336[B]	CYS	20.9
1	1-A	316[A]	TYR	17.8
1	2-A	316[B]	TYR	17.8
1	1-A	318[A]	CYS	16.9
1	2-A	318[B]	CYS	16.9
1	1-A	302[A]	TRP	16.8
1	2-A	302[B]	TRP	16.8
1	1-A	218[A]	TRP	16.6
1	2-A	218[B]	TRP	16.6
1	1-B	218[A]	TRP	16.0
1	2-B	218[B]	TRP	16.0
1	1-B	317[A]	ILE	15.3
1	2-B	317[B]	ILE	15.3
1	1-A	335[A]	SER	14.8
1	2-A	335[B]	SER	14.8
1	1-B	336[A]	CYS	14.4
1	2-B	336[B]	CYS	14.4
1	1-B	302[A]	TRP	13.4

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Mol	Chain	Res	Type	RSRZ
1	2-B	302[B]	TRP	13.4
1	1-A	315[A]	GLY	13.3
1	2-A	315[B]	GLY	13.3
1	1-A	466[A]	PHE	12.2
1	2-A	466[B]	PHE	12.2
1	1-B	202[A]	VAL	12.1
1	2-B	202[B]	VAL	12.1
1	1-A	95[A]	SER	11.9
1	2-A	95[B]	SER	11.9
1	1-B	149[A]	VAL	11.9
1	2-B	149[B]	VAL	11.9
1	1-B	318[A]	CYS	11.6
1	2-B	318[B]	CYS	11.6
1	1-B	384[A]	THR	11.5
1	2-B	384[B]	THR	11.5
1	1-A	202[A]	VAL	11.5
1	2-A	202[B]	VAL	11.5
1	1-A	149[A]	VAL	11.1
1	2-A	149[B]	VAL	11.1
1	1-A	464[A]	LEU	11.0
1	2-A	464[B]	LEU	11.0
1	1-A	320[A]	GLY	10.9
1	2-A	320[B]	GLY	10.9
1	1-B	315[A]	GLY	10.7
1	2-B	315[B]	GLY	10.7
1	1-A	454[A]	VAL	10.7
1	2-A	454[B]	VAL	10.7
1	1-B	417[A]	CYS	10.6
1	2-B	417[B]	CYS	10.6
1	1-A	301[A]	PRO	10.5
1	2-A	301[B]	PRO	10.5
1	1-A	341[A]	VAL	10.3
1	2-A	341[B]	VAL	10.3
1	1-A	215[A]	ILE	10.3
1	2-A	215[B]	ILE	10.3
1	1-A	132[A]	PHE	10.2
1	2-A	132[B]	PHE	10.2
1	1-B	295[A]	TRP	9.9
1	2-B	295[B]	TRP	9.9
1	1-B	320[A]	GLY	9.8
1	2-B	320[B]	GLY	9.8
1	1-A	322[A]	PHE	9.8

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Mol	Chain	Res	Type	RSRZ
1	2-A	322[B]	PHE	9.8
1	1-B	204[A]	VAL	9.8
1	2-B	204[B]	VAL	9.8
1	1-B	451[A]	SER	9.7
1	2-B	451[B]	SER	9.7
1	1-B	466[A]	PHE	9.4
1	2-B	466[B]	PHE	9.4
1	1-A	295[A]	TRP	9.4
1	2-A	295[B]	TRP	9.4
1	1-A	223[A]	LEU	9.3
1	2-A	223[B]	LEU	9.3
1	1-A	275[A]	TYR	9.2
1	2-A	275[B]	TYR	9.2
1	1-A	216[A]	LYS	9.1
1	2-A	216[B]	LYS	9.1
1	1-A	214[A]	THR	9.1
1	2-A	214[B]	THR	9.1
1	1-B	339[A]	GLY	9.1
1	2-B	339[B]	GLY	9.1
1	1-B	253[A]	LYS	9.0
1	2-B	253[B]	LYS	9.0
1	1-A	217[A]	SER	9.0
1	2-A	217[B]	SER	9.0
1	1-A	242[A]	THR	8.9
1	2-A	242[B]	THR	8.9
1	1-A	319[A]	SER	8.9
1	2-A	319[B]	SER	8.9
1	1-A	384[A]	THR	8.8
1	2-A	384[B]	THR	8.8
1	1-B	217[A]	SER	8.8
1	2-B	217[B]	SER	8.8
1	1-A	453[A]	THR	8.8
1	2-A	453[B]	THR	8.8
1	1-B	223[A]	LEU	8.8
1	2-B	223[B]	LEU	8.8
1	1-B	203[A]	ALA	8.7
1	1-B	215[A]	ILE	8.7
1	2-B	203[B]	ALA	8.7
1	2-B	215[B]	ILE	8.7
1	1-A	173[A]	PHE	8.6
1	2-A	173[B]	PHE	8.6
1	1-B	242[A]	THR	8.6

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Mol	Chain	Res	Type	RSRZ
1	2-B	242[B]	THR	8.6
1	1-B	452[A]	ASP	8.5
1	2-B	452[B]	ASP	8.5
1	1-B	132[A]	PHE	8.5
1	2-B	132[B]	PHE	8.5
1	1-B	278[A]	CYS	8.4
1	2-B	278[B]	CYS	8.4
1	1-A	452[A]	ASP	8.3
1	2-A	452[B]	ASP	8.3
1	1-B	173[A]	PHE	8.3
1	1-B	468[A]	ILE	8.3
1	2-B	173[B]	PHE	8.3
1	2-B	468[B]	ILE	8.3
1	1-B	448[A]	GLY	8.3
1	2-B	448[B]	GLY	8.3
1	1-A	99[A]	ILE	8.2
1	2-A	99[B]	ILE	8.2
1	1-A	468[A]	ILE	8.2
1	2-A	468[B]	ILE	8.2
1	1-A	204[A]	VAL	8.2
1	2-A	204[B]	VAL	8.2
1	1-B	275[A]	TYR	8.2
1	2-B	275[B]	TYR	8.2
1	1-A	448[A]	GLY	8.1
1	2-A	448[B]	GLY	8.1
1	1-B	453[A]	THR	8.1
1	2-B	453[B]	THR	8.1
1	1-A	146[A]	ASN	7.9
1	2-A	146[B]	ASN	7.9
1	1-B	314[A]	ILE	7.8
1	2-B	314[B]	ILE	7.8
1	1-B	316[A]	TYR	7.8
1	2-B	316[B]	TYR	7.8
1	1-B	176[A]	VAL	7.7
1	2-B	176[B]	VAL	7.7
1	1-A	176[A]	VAL	7.7
1	2-A	176[B]	VAL	7.7
1	1-A	333[A]	GLY	7.7
1	2-A	333[B]	GLY	7.7
1	1-A	314[A]	ILE	7.6
1	2-A	314[B]	ILE	7.6
1	1-A	203[A]	ALA	7.5

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Mol	Chain	Res	Type	RSRZ
1	2-A	203[B]	ALA	7.5
1	1-B	194[A]	ILE	7.5
1	2-B	194[B]	ILE	7.5
1	1-B	216[A]	LYS	7.4
1	2-B	216[B]	LYS	7.4
1	1-B	341[A]	VAL	7.4
1	2-B	341[B]	VAL	7.4
1	1-B	335[A]	SER	7.3
1	2-B	335[B]	SER	7.3
1	1-A	300[A]	ARG	7.2
1	2-A	300[B]	ARG	7.2
1	1-A	417[A]	CYS	7.2
1	2-A	417[B]	CYS	7.2
1	1-A	194[A]	ILE	7.1
1	2-A	194[B]	ILE	7.1
1	1-B	454[A]	VAL	7.1
1	2-B	454[B]	VAL	7.1
1	1-A	201[A]	ALA	7.0
1	2-A	201[B]	ALA	7.0
1	1-A	257[A]	ILE	7.0
1	2-A	257[B]	ILE	7.0
1	1-B	158[A]	LEU	6.9
1	2-B	158[B]	LEU	6.9
1	1-B	245[A]	PRO	6.9
1	1-B	301[A]	PRO	6.9
1	2-B	245[B]	PRO	6.9
1	2-B	301[B]	PRO	6.9
1	1-A	278[A]	CYS	6.9
1	2-A	278[B]	CYS	6.9
1	1-B	201[A]	ALA	6.9
1	2-B	201[B]	ALA	6.9
1	1-A	451[A]	SER	6.9
1	2-A	451[B]	SER	6.9
1	1-B	252[A]	TYR	6.8
1	2-B	252[B]	TYR	6.8
1	1-B	205[A]	LEU	6.8
1	2-B	205[B]	LEU	6.8
1	1-A	241[A]	MET	6.8
1	2-A	241[B]	MET	6.8
1	1-B	392[A]	VAL	6.7
1	2-B	392[B]	VAL	6.7
1	1-A	423[A]	TRP	6.6

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Mol	Chain	Res	Type	RSRZ
1	2-A	423[B]	TRP	6.6
1	1-B	291[A]	CYS	6.5
1	2-B	291[B]	CYS	6.5
1	1-A	158[A]	LEU	6.5
1	2-A	158[B]	LEU	6.5
1	1-A	342[A]	SER	6.5
1	2-A	342[B]	SER	6.5
1	1-B	99[A]	ILE	6.4
1	2-B	99[B]	ILE	6.4
1	1-A	374[A]	PHE	6.4
1	1-B	374[A]	PHE	6.4
1	2-A	374[B]	PHE	6.4
1	2-B	374[B]	PHE	6.4
1	1-A	205[A]	LEU	6.4
1	2-A	205[B]	LEU	6.4
1	1-A	252[A]	TYR	6.4
1	2-A	252[B]	TYR	6.4
1	1-A	209[A]	GLY	6.4
1	2-A	209[B]	GLY	6.4
1	1-B	129[A]	CYS	6.4
1	2-B	129[B]	CYS	6.4
1	1-B	214[A]	THR	6.3
1	2-B	214[B]	THR	6.3
1	1-B	257[A]	ILE	6.1
1	2-B	257[B]	ILE	6.1
1	1-B	377[A]	ILE	6.1
1	2-B	377[B]	ILE	6.1
1	1-A	446[A]	PHE	6.1
1	2-A	446[B]	PHE	6.1
1	1-A	297[A]	GLY	6.0
1	1-A	438[A]	TRP	6.0
1	1-B	200[A]	GLY	6.0
1	2-A	297[B]	GLY	6.0
1	2-A	438[B]	TRP	6.0
1	2-B	200[B]	GLY	6.0
1	1-B	333[A]	GLY	6.0
1	2-B	333[B]	GLY	6.0
1	1-A	386[A]	THR	6.0
1	2-A	386[B]	THR	6.0
1	1-A	299[A]	ASN	5.8
1	1-B	319[A]	SER	5.8
1	2-A	299[B]	ASN	5.8

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Mol	Chain	Res	Type	RSRZ
1	2-B	319[B]	SER	5.8
1	1-B	188[A]	GLY	5.8
1	1-B	450[A]	ASN	5.8
1	2-B	188[B]	GLY	5.8
1	2-B	450[B]	ASN	5.8
1	1-A	397[A]	ILE	5.7
1	2-A	397[B]	ILE	5.7
1	1-B	322[A]	PHE	5.7
1	2-B	322[B]	PHE	5.7
1	1-A	435[A]	ASN	5.7
1	2-A	435[B]	ASN	5.7
1	1-A	172[A]	ARG	5.7
1	2-A	172[B]	ARG	5.7
1	1-A	291[A]	CYS	5.7
1	2-A	291[B]	CYS	5.7
1	1-B	172[A]	ARG	5.7
1	2-B	172[B]	ARG	5.7
1	1-B	446[A]	PHE	5.6
1	2-B	446[B]	PHE	5.6
1	1-A	450[A]	ASN	5.5
1	2-A	450[B]	ASN	5.5
1	1-A	200[A]	GLY	5.5
1	2-A	200[B]	GLY	5.5
1	1-B	190[A]	LEU	5.4
1	2-B	190[B]	LEU	5.4
1	1-A	245[A]	PRO	5.4
1	2-A	245[B]	PRO	5.4
1	1-A	222[A]	ILE	5.3
1	2-A	222[B]	ILE	5.3
1	1-B	123[A]	SER	5.3
1	2-B	123[B]	SER	5.3
1	1-B	136[A]	GLN	5.3
1	2-B	136[B]	GLN	5.3
1	1-B	160[A]	SER	5.2
1	2-B	160[B]	SER	5.2
1	1-A	254[A]	ILE	5.2
1	2-A	254[B]	ILE	5.2
1	1-B	161[A]	CYS	5.2
1	2-B	161[B]	CYS	5.2
1	1-A	323[A]	GLY	5.2
1	1-B	260[A]	GLY	5.2
1	2-A	323[B]	GLY	5.2

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Mol	Chain	Res	Type	RSRZ
1	2-B	260[B]	GLY	5.2
1	1-B	268[A]	LEU	5.2
1	2-B	268[B]	LEU	5.2
1	1-A	180[A]	ALA	5.1
1	2-A	180[B]	ALA	5.1
1	1-A	159[A]	MET	5.1
1	2-A	159[B]	MET	5.1
1	1-B	159[A]	MET	5.1
1	2-B	159[B]	MET	5.1
1	1-B	254[A]	ILE	5.1
1	2-B	254[B]	ILE	5.1
1	1-A	349[A]	ILE	5.0
1	2-A	349[B]	ILE	5.0
1	1-A	430[A]	GLN	5.0
1	2-A	430[B]	GLN	5.0
1	1-B	175[A]	SER	5.0
1	2-B	175[B]	SER	5.0
1	1-A	129[A]	CYS	5.0
1	2-A	129[B]	CYS	5.0
1	1-A	150[A]	LYS	5.0
1	2-A	150[B]	LYS	5.0
1	1-A	298[A]	SER	5.0
1	2-A	298[B]	SER	5.0
1	1-A	376[A]	MET	4.9
1	2-A	376[B]	MET	4.9
1	1-B	222[A]	ILE	4.9
1	2-B	222[B]	ILE	4.9
1	1-A	188[A]	GLY	4.9
1	2-A	188[B]	GLY	4.9
1	1-A	147[A]	GLY	4.9
1	2-A	147[B]	GLY	4.9
1	1-B	296[A]	HIS	4.9
1	2-B	296[B]	HIS	4.9
1	1-B	146[A]	ASN	4.8
1	1-B	243[A]	ASP	4.8
1	2-B	146[B]	ASN	4.8
1	2-B	243[B]	ASP	4.8
1	1-A	220[A]	ASN	4.8
1	2-A	220[B]	ASN	4.8
1	1-A	343[A]	SER	4.8
1	2-A	343[B]	SER	4.8
1	1-A	274[A]	HIS	4.8

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Mol	Chain	Res	Type	RSRZ
1	2-A	274[B]	HIS	4.8
1	1-A	455[A]	GLY	4.8
1	1-B	408[A]	GLY	4.8
1	2-A	455[B]	GLY	4.8
1	2-B	408[B]	GLY	4.8
1	1-B	197[A]	PRO	4.7
1	1-B	300[A]	ARG	4.7
1	2-B	197[B]	PRO	4.7
1	2-B	300[B]	ARG	4.7
1	1-B	388[A]	SER	4.7
1	1-B	467[A]	SER	4.7
1	2-B	388[B]	SER	4.7
1	2-B	467[B]	SER	4.7
1	1-B	133[A]	PHE	4.7
1	1-B	271[A]	PRO	4.7
1	2-B	133[B]	PHE	4.7
1	2-B	271[B]	PRO	4.7
1	1-A	408[A]	GLY	4.7
1	2-A	408[B]	GLY	4.7
1	1-A	388[A]	SER	4.7
1	2-A	388[B]	SER	4.7
1	1-B	86[A]	THR	4.7
1	2-B	86[B]	THR	4.7
1	1-A	403[A]	TRP	4.7
1	1-B	423[A]	TRP	4.7
1	2-A	403[B]	TRP	4.7
1	2-B	423[B]	TRP	4.7
1	1-B	220[A]	ASN	4.7
1	2-B	220[B]	ASN	4.7
1	1-A	260[A]	GLY	4.7
1	2-A	260[B]	GLY	4.7
1	1-A	340[A]	PRO	4.6
1	2-A	340[B]	PRO	4.6
1	1-A	444[A]	ILE	4.6
1	2-A	444[B]	ILE	4.6
1	1-A	394[A]	ARG	4.6
1	2-A	394[B]	ARG	4.6
1	1-B	297[A]	GLY	4.5
1	2-B	297[B]	GLY	4.5
1	1-A	424[A]	VAL	4.5
1	2-A	424[B]	VAL	4.5
1	1-A	467[A]	SER	4.5

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Mol	Chain	Res	Type	RSRZ
1	2-A	467[B]	SER	4.5
1	1-B	332[A]	THR	4.5
1	2-B	332[B]	THR	4.5
1	1-A	321[A]	VAL	4.5
1	1-A	392[A]	VAL	4.5
1	2-A	321[B]	VAL	4.5
1	2-A	392[B]	VAL	4.5
1	1-B	424[A]	VAL	4.4
1	2-B	424[B]	VAL	4.4
1	1-A	456[A]	TRP	4.4
1	1-B	403[A]	TRP	4.4
1	2-A	456[B]	TRP	4.4
1	2-B	403[B]	TRP	4.4
1	1-A	377[A]	ILE	4.4
1	2-A	377[B]	ILE	4.4
1	1-A	395[A]	GLN	4.4
1	1-B	395[A]	GLN	4.4
1	2-A	395[B]	GLN	4.4
1	2-B	395[B]	GLN	4.4
1	1-B	464[A]	LEU	4.4
1	2-B	464[B]	LEU	4.4
1	1-B	376[A]	MET	4.4
1	2-B	376[B]	MET	4.4
1	1-B	378[A]	TRP	4.4
1	2-B	378[B]	TRP	4.4
1	1-B	177[A]	ALA	4.4
1	2-B	177[B]	ALA	4.4
1	1-B	178[A]	TRP	4.3
1	2-B	178[B]	TRP	4.3
1	1-A	437[A]	ILE	4.3
1	1-B	397[A]	ILE	4.3
1	2-A	437[B]	ILE	4.3
1	2-B	397[B]	ILE	4.3
1	1-A	439[A]	THR	4.3
1	2-A	439[B]	THR	4.3
1	1-B	323[A]	GLY	4.2
1	2-B	323[B]	GLY	4.2
1	1-B	321[A]	VAL	4.2
1	2-B	321[B]	VAL	4.2
1	1-A	121[A]	PHE	4.2
1	2-A	121[B]	PHE	4.2
1	1-B	444[A]	ILE	4.2

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Mol	Chain	Res	Type	RSRZ
1	2-B	444[B]	ILE	4.2
1	1-B	394[A]	ARG	4.2
1	2-B	394[B]	ARG	4.2
1	1-B	310[A]	LEU	4.2
1	2-B	310[B]	LEU	4.2
1	1-A	363[A]	GLY	4.2
1	2-A	363[B]	GLY	4.2
1	1-A	422[A]	PHE	4.2
1	2-A	422[B]	PHE	4.2
1	1-A	178[A]	TRP	4.2
1	1-A	378[A]	TRP	4.2
1	2-A	178[B]	TRP	4.2
1	2-A	378[B]	TRP	4.2
1	1-A	332[A]	THR	4.2
1	2-A	332[B]	THR	4.2
1	1-A	190[A]	LEU	4.2
1	2-A	190[B]	LEU	4.2
1	1-A	133[A]	PHE	4.1
1	2-A	133[B]	PHE	4.1
1	1-B	340[A]	PRO	4.1
1	2-B	340[B]	PRO	4.1
1	1-A	86[A]	THR	4.1
1	2-A	86[B]	THR	4.1
1	1-B	342[A]	SER	4.1
1	2-B	342[B]	SER	4.1
1	1-B	274[A]	HIS	4.1
1	2-B	274[B]	HIS	4.1
1	1-A	310[A]	LEU	4.0
1	2-A	310[B]	LEU	4.0
1	1-B	458[A]	TRP	4.0
1	2-B	458[B]	TRP	4.0
1	1-B	135[A]	THR	4.0
1	2-B	135[B]	THR	4.0
1	1-B	386[A]	THR	3.9
1	2-B	386[B]	THR	3.9
1	1-B	180[A]	ALA	3.9
1	2-B	180[B]	ALA	3.9
1	1-A	175[A]	SER	3.9
1	2-A	175[B]	SER	3.9
1	1-A	161[A]	CYS	3.9
1	2-A	161[B]	CYS	3.9
1	1-A	339[A]	GLY	3.9

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Mol	Chain	Res	Type	RSRZ
1	2-A	339[B]	GLY	3.9
1	1-A	177[A]	ALA	3.9
1	2-A	177[B]	ALA	3.9
1	1-B	150[A]	LYS	3.9
1	2-B	150[B]	LYS	3.9
1	1-B	249[A]	GLN	3.9
1	2-B	249[B]	GLN	3.9
1	1-A	383[A]	TRP	3.9
1	2-A	383[B]	TRP	3.9
1	1-A	284[A]	THR	3.9
1	2-A	284[B]	THR	3.9
1	1-A	303[A]	VAL	3.8
1	2-A	303[B]	VAL	3.8
1	1-A	243[A]	ASP	3.8
1	2-A	243[B]	ASP	3.8
1	1-A	410[A]	PHE	3.8
1	2-A	410[B]	PHE	3.8
1	1-B	349[A]	ILE	3.8
1	2-B	349[B]	ILE	3.8
1	1-B	148[A]	THR	3.8
1	1-B	221[A]	ASN	3.8
1	2-B	148[B]	THR	3.8
1	2-B	221[B]	ASN	3.8
1	1-B	329[A]	ASN	3.8
1	2-B	329[B]	ASN	3.8
1	1-A	110[A]	SER	3.8
1	1-B	95[A]	SER	3.8
1	2-A	110[B]	SER	3.8
1	2-B	95[B]	SER	3.8
1	1-B	127[A]	LEU	3.7
1	2-B	127[B]	LEU	3.7
1	1-B	179[A]	SER	3.7
1	2-B	179[B]	SER	3.7
1	1-A	412(D)[A]	LEU	3.7
1	2-A	412(D)[B]	LEU	3.7
1	1-A	324[A]	ASP	3.7
1	2-A	324[B]	ASP	3.7
1	1-A	130[A]	ARG	3.7
1	2-A	130[B]	ARG	3.7
1	1-A	296[A]	HIS	3.7
1	2-A	296[B]	HIS	3.7
1	1-B	147[A]	GLY	3.6

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Mol	Chain	Res	Type	RSRZ
1	2-B	147[B]	GLY	3.6
1	1-B	406[A]	TYR	3.6
1	2-B	406[B]	TYR	3.6
1	1-A	187[A]	MET	3.6
1	2-A	187[B]	MET	3.6
1	1-A	286[A]	LYS	3.6
1	2-A	286[B]	LYS	3.6
1	1-B	456[A]	TRP	3.6
1	2-B	456[B]	TRP	3.6
1	1-A	247[A]	ASN	3.6
1	2-A	247[B]	ASN	3.6
1	1-A	97[A]	TRP	3.6
1	2-A	97[B]	TRP	3.6
1	1-A	235[A]	GLY	3.6
1	2-A	235[B]	GLY	3.6
1	1-A	276[A]	GLU	3.6
1	2-A	276[B]	GLU	3.6
1	1-B	272[A]	ASN	3.6
1	2-B	272[B]	ASN	3.6
1	1-A	98[A]	ALA	3.6
1	2-A	98[B]	ALA	3.6
1	1-B	247[A]	ASN	3.5
1	2-B	247[B]	ASN	3.5
1	1-B	227[A]	GLU	3.5
1	2-B	227[B]	GLU	3.5
1	1-A	93[A]	PRO	3.5
1	2-A	93[B]	PRO	3.5
1	1-A	171[A]	SER	3.5
1	2-A	171[B]	SER	3.5
1	1-B	131[A]	THR	3.5
1	2-B	131[B]	THR	3.5
1	1-A	139[A]	LEU	3.5
1	1-A	426[A]	LEU	3.5
1	2-A	139[B]	LEU	3.5
1	2-A	426[B]	LEU	3.5
1	1-B	226[A]	GLN	3.5
1	2-B	226[B]	GLN	3.5
1	1-A	134[A]	LEU	3.5
1	2-A	134[B]	LEU	3.5
1	1-A	268[A]	LEU	3.4
1	1-B	139[A]	LEU	3.4
1	2-A	268[B]	LEU	3.4

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Mol	Chain	Res	Type	RSRZ
1	2-B	139[B]	LEU	3.4
1	1-A	458[A]	TRP	3.4
1	2-A	458[B]	TRP	3.4
1	1-B	422[A]	PHE	3.4
1	2-B	422[B]	PHE	3.4
1	1-B	284[A]	THR	3.4
1	2-B	284[B]	THR	3.4
1	1-A	111[A]	LYS	3.4
1	2-A	111[B]	LYS	3.4
1	1-B	363[A]	GLY	3.4
1	2-B	363[B]	GLY	3.4
1	1-A	197[A]	PRO	3.4
1	2-A	197[B]	PRO	3.4
1	1-B	356[A]	TYR	3.3
1	2-B	356[B]	TYR	3.3
1	1-B	437[A]	ILE	3.3
1	2-B	437[B]	ILE	3.3
1	1-A	162[A]	PRO	3.3
1	1-A	170[A]	ASN	3.3
1	2-A	162[B]	PRO	3.3
1	2-A	170[B]	ASN	3.3
1	1-B	97[A]	TRP	3.3
1	2-B	97[B]	TRP	3.3
1	1-A	140[A]	LEU	3.3
1	2-A	140[B]	LEU	3.3
1	1-B	412(D)[A]	LEU	3.3
1	2-B	412(D)[B]	LEU	3.3
1	1-A	253[A]	LYS	3.3
1	2-A	253[B]	LYS	3.3
1	1-A	151[A]	ASP	3.3
1	2-A	151[B]	ASP	3.3
1	1-B	298[A]	SER	3.2
1	2-B	298[B]	SER	3.2
1	1-A	106[A]	ILE	3.2
1	2-A	106[B]	ILE	3.2
1	1-A	123[A]	SER	3.2
1	2-A	123[B]	SER	3.2
1	1-B	187[A]	MET	3.2
1	2-B	187[B]	MET	3.2
1	1-A	136[A]	GLN	3.2
1	2-A	136[B]	GLN	3.2
1	1-B	465[A]	PRO	3.2

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Mol	Chain	Res	Type	RSRZ
1	2-B	465[B]	PRO	3.2
1	1-B	345[A]	GLY	3.2
1	2-B	345[B]	GLY	3.2
1	1-A	290[A]	VAL	3.2
1	2-A	290[B]	VAL	3.2
1	1-B	305[A]	PHE	3.2
1	2-B	305[B]	PHE	3.2
1	1-A	328[A]	PRO	3.1
1	2-A	328[B]	PRO	3.1
1	1-A	398[A]	VAL	3.1
1	2-A	398[B]	VAL	3.1
1	1-A	221[A]	ASN	3.1
1	2-A	221[B]	ASN	3.1
1	1-B	211[A]	ILE	3.1
1	2-B	211[B]	ILE	3.1
1	1-A	465[A]	PRO	3.1
1	2-A	465[B]	PRO	3.1
1	1-B	195[A]	SER	3.1
1	2-B	195[B]	SER	3.1
1	1-A	193[A]	GLY	3.1
1	2-A	193[B]	GLY	3.1
1	1-A	169(A)[A]	TYR	3.1
1	2-A	169(A)[B]	TYR	3.1
1	1-B	290[A]	VAL	3.1
1	2-B	290[B]	VAL	3.1
1	1-B	101[A]	SER	3.0
1	2-B	101[B]	SER	3.0
1	1-B	286[A]	LYS	3.0
1	2-B	286[B]	LYS	3.0
1	1-B	313[A]	GLN	3.0
1	2-B	313[B]	GLN	3.0
1	1-B	121[A]	PHE	3.0
1	2-B	121[B]	PHE	3.0
1	1-B	445[A]	SER	3.0
1	2-B	445[B]	SER	3.0
1	1-B	157[A]	THR	3.0
1	2-B	157[B]	THR	3.0
1	1-B	164[A]	GLY	3.0
1	2-B	164[B]	GLY	3.0
1	1-B	117[A]	ILE	3.0
1	2-B	117[B]	ILE	3.0
1	1-B	426[A]	LEU	3.0

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Mol	Chain	Res	Type	RSRZ
1	2-B	426[B]	LEU	3.0
1	1-B	162[A]	PRO	3.0
1	2-B	162[B]	PRO	3.0
1	1-A	186[A]	GLY	2.9
1	1-B	343[A]	SER	2.9
1	2-A	186[B]	GLY	2.9
1	2-B	343[B]	SER	2.9
1	1-A	364[A]	ARG	2.9
1	1-B	383[A]	TRP	2.9
1	2-A	364[B]	ARG	2.9
1	2-B	383[B]	TRP	2.9
1	1-B	98[A]	ALA	2.9
1	2-B	98[B]	ALA	2.9
1	1-A	356[A]	TYR	2.9
1	2-A	356[B]	TYR	2.9
1	1-A	137[A]	GLY	2.9
1	2-A	137[B]	GLY	2.9
1	1-A	120[A]	PRO	2.9
1	2-A	120[B]	PRO	2.9
1	1-B	292[A]	ARG	2.9
1	2-B	292[B]	ARG	2.9
1	1-A	330[A]	ASP	2.9
1	2-A	330[B]	ASP	2.9
1	1-B	225[A]	THR	2.9
1	2-B	225[B]	THR	2.9
1	1-A	164[A]	GLY	2.9
1	1-A	168[A]	SER	2.9
1	1-B	246[A]	SER	2.9
1	2-A	164[B]	GLY	2.9
1	2-A	168[B]	SER	2.9
1	2-B	246[B]	SER	2.9
1	1-B	299[A]	ASN	2.9
1	2-B	299[B]	ASN	2.9
1	1-B	169[A]	PRO	2.9
1	2-B	169[B]	PRO	2.9
1	1-A	119[A]	GLU	2.9
1	1-B	273[A]	TYR	2.9
1	1-B	463[A]	GLU	2.9
1	2-A	119[B]	GLU	2.9
1	2-B	273[B]	TYR	2.9
1	2-B	463[B]	GLU	2.9
1	1-B	419[A]	ARG	2.8

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Mol	Chain	Res	Type	RSRZ
1	2-B	419[B]	ARG	2.8
1	1-B	168[A]	SER	2.8
1	1-A	272[A]	ASN	2.8
1	1-B	438[A]	TRP	2.8
1	2-B	168[B]	SER	2.8
1	2-A	272[B]	ASN	2.8
1	2-B	438[B]	TRP	2.8
1	1-B	277[A]	GLU	2.8
1	2-B	277[B]	GLU	2.8
1	1-B	455[A]	GLY	2.8
1	2-B	455[B]	GLY	2.8
1	1-B	288[A]	MET	2.8
1	2-B	288[B]	MET	2.8
1	1-B	398[A]	VAL	2.8
1	2-B	398[B]	VAL	2.8
1	1-B	352[A]	PHE	2.8
1	2-B	352[B]	PHE	2.8
1	1-A	195[A]	SER	2.8
1	2-A	195[B]	SER	2.8
1	1-A	277[A]	GLU	2.7
1	2-A	277[B]	GLU	2.7
1	1-A	246[A]	SER	2.7
1	2-A	246[B]	SER	2.7
1	1-A	305[A]	PHE	2.7
1	2-A	305[B]	PHE	2.7
1	1-B	199[A]	ASN	2.7
1	2-B	199[B]	ASN	2.7
1	1-B	235[A]	GLY	2.7
1	2-B	235[B]	GLY	2.7
1	1-B	114[A]	VAL	2.7
1	2-B	114[B]	VAL	2.7
1	1-A	443[A]	SER	2.7
1	2-A	443[B]	SER	2.7
1	1-A	157[A]	THR	2.7
1	2-A	157[B]	THR	2.7
1	1-B	346[A]	ALA	2.7
1	2-B	346[B]	ALA	2.7
1	1-A	174[A]	GLU	2.7
1	2-A	174[B]	GLU	2.7
1	1-B	224[A]	ARG	2.7
1	2-B	224[B]	ARG	2.7
1	1-A	225[A]	THR	2.7

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Mol	Chain	Res	Type	RSRZ
1	2-A	225[B]	THR	2.7
1	1-A	179[A]	SER	2.7
1	1-A	447[A]	CYS	2.7
1	2-A	179[B]	SER	2.7
1	2-A	447[B]	CYS	2.7
1	1-B	167[A]	PRO	2.7
1	2-B	167[B]	PRO	2.7
1	1-A	166[A]	ALA	2.6
1	2-A	166[B]	ALA	2.6
1	1-A	362[A]	ILE	2.6
1	1-B	94[A]	ILE	2.6
1	2-A	362[B]	ILE	2.6
1	2-B	94[B]	ILE	2.6
1	1-B	163[A]	VAL	2.6
1	2-B	163[B]	VAL	2.6
1	1-B	368[A]	THR	2.6
1	2-B	368[B]	THR	2.6
1	1-A	431[A]	PRO	2.6
1	2-A	431[B]	PRO	2.6
1	1-B	134[A]	LEU	2.6
1	2-B	134[B]	LEU	2.6
1	1-A	224[A]	ARG	2.6
1	2-A	224[B]	ARG	2.6
1	1-A	261[A]	LYS	2.6
1	2-A	261[B]	LYS	2.6
1	1-A	148[A]	THR	2.6
1	2-A	148[B]	THR	2.6
1	1-A	114[A]	VAL	2.6
1	2-A	114[B]	VAL	2.6
1	1-A	227[A]	GLU	2.6
1	2-A	227[B]	GLU	2.6
1	1-B	241[A]	MET	2.6
1	2-B	241[B]	MET	2.6
1	1-A	101[A]	SER	2.6
1	2-A	101[B]	SER	2.6
1	1-B	120[A]	PRO	2.6
1	2-B	120[B]	PRO	2.6
1	1-B	170[A]	ASN	2.5
1	2-B	170[B]	ASN	2.5
1	1-A	289[A]	CYS	2.5
1	2-A	289[B]	CYS	2.5
1	1-A	327[A]	ARG	2.5

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Mol	Chain	Res	Type	RSRZ
1	2-A	327[B]	ARG	2.5
1	1-B	330[A]	ASP	2.5
1	2-B	330[B]	ASP	2.5
1	1-B	276[A]	GLU	2.5
1	2-B	276[B]	GLU	2.5
1	1-A	250[A]	ALA	2.5
1	2-A	250[B]	ALA	2.5
1	1-A	131[A]	THR	2.5
1	2-A	131[B]	THR	2.5
1	1-B	228[A]	SER	2.5
1	2-B	228[B]	SER	2.5
1	1-A	432[A]	LYS	2.5
1	1-B	328[A]	PRO	2.5
1	2-A	432[B]	LYS	2.5
1	2-B	328[B]	PRO	2.5
1	1-A	419[A]	ARG	2.5
1	1-A	421[A]	CYS	2.5
1	1-B	130[A]	ARG	2.5
1	1-B	183[A]	CYS	2.5
1	2-A	419[B]	ARG	2.5
1	2-A	421[B]	CYS	2.5
1	2-B	130[B]	ARG	2.5
1	2-B	183[B]	CYS	2.5
1	1-B	390[A]	PHE	2.5
1	2-B	390[B]	PHE	2.5
1	1-A	429[A]	GLY	2.5
1	2-A	429[B]	GLY	2.5
1	1-A	152[A]	ARG	2.4
1	2-A	152[B]	ARG	2.4
1	1-B	389[A]	SER	2.4
1	2-B	389[B]	SER	2.4
1	1-A	267[A]	GLU	2.4
1	2-A	267[B]	GLU	2.4
1	1-A	199[A]	ASN	2.4
1	2-A	199[B]	ASN	2.4
1	1-A	100[A]	TYR	2.4
1	2-A	100[B]	TYR	2.4
1	1-B	141[A]	ASN	2.4
1	2-B	141[B]	ASN	2.4
1	1-A	345[A]	GLY	2.4
1	1-B	331[A]	GLY	2.4
1	2-A	345[B]	GLY	2.4

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Mol	Chain	Res	Type	RSRZ
1	2-B	331[B]	GLY	2.4
1	1-A	206[A]	LYS	2.3
1	2-A	206[B]	LYS	2.3
1	1-B	90[A]	SER	2.3
1	2-B	90[B]	SER	2.3
1	1-A	167[A]	PRO	2.3
1	2-A	167[B]	PRO	2.3
1	1-B	174[A]	GLU	2.3
1	1-B	267[A]	GLU	2.3
1	2-B	174[B]	GLU	2.3
1	2-B	267[B]	GLU	2.3
1	1-A	115[A]	PHE	2.3
1	1-B	364[A]	ARG	2.3
1	2-A	115[B]	PHE	2.3
1	2-B	364[B]	ARG	2.3
1	1-A	326[A]	PRO	2.3
1	1-A	380[A]	PRO	2.3
1	1-B	324[A]	ASP	2.3
1	2-A	326[B]	PRO	2.3
1	2-A	380[B]	PRO	2.3
1	2-B	324[B]	ASP	2.3
1	1-A	311[A]	ASP	2.3
1	2-A	311[B]	ASP	2.3
1	1-A	352[A]	PHE	2.3
1	1-B	410[A]	PHE	2.3
1	2-A	352[B]	PHE	2.3
1	2-B	410[B]	PHE	2.3
1	1-A	228[A]	SER	2.3
1	2-A	228[B]	SER	2.3
1	1-B	348[A]	GLY	2.3
1	2-B	348[B]	GLY	2.3
1	1-A	89[A]	SER	2.3
1	2-A	89[B]	SER	2.3
1	1-A	248[A]	GLY	2.3
1	2-A	248[B]	GLY	2.3
1	1-A	90[A]	SER	2.2
1	1-B	93[A]	PRO	2.2
1	1-B	431[A]	PRO	2.2
1	2-A	90[B]	SER	2.2
1	2-B	93[B]	PRO	2.2
1	2-B	431[B]	PRO	2.2
1	1-A	127[A]	LEU	2.2

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Mol	Chain	Res	Type	RSRZ
1	2-A	127[B]	LEU	2.2
1	1-B	400[A]	ILE	2.2
1	2-B	400[B]	ILE	2.2
1	1-A	292[A]	ARG	2.2
1	1-A	344[A]	ASN	2.2
1	1-B	435[A]	ASN	2.2
1	2-A	292[B]	ARG	2.2
1	2-A	344[B]	ASN	2.2
1	2-B	435[B]	ASN	2.2
1	1-A	369[A]	SER	2.2
1	2-A	369[B]	SER	2.2
1	1-B	156[A]	ARG	2.2
1	2-B	156[B]	ARG	2.2
1	1-B	106[A]	ILE	2.2
1	2-B	106[B]	ILE	2.2
1	1-A	279[A]	SER	2.2
1	1-B	171[A]	SER	2.2
1	2-A	279[B]	SER	2.2
1	2-B	171[B]	SER	2.2
1	1-B	293[A]	ASP	2.2
1	2-B	293[B]	ASP	2.2
1	1-A	313[A]	GLN	2.2
1	2-A	313[B]	GLN	2.2
1	1-B	462[A]	ALA	2.2
1	2-B	462[B]	ALA	2.2
1	1-A	463[A]	GLU	2.2
1	1-B	151[A]	ASP	2.2
1	2-A	463[B]	GLU	2.2
1	2-B	151[B]	ASP	2.2
1	1-A	427[A]	ILE	2.2
1	2-A	427[B]	ILE	2.2
1	1-B	396[A]	ASP	2.2
1	2-B	396[B]	ASP	2.2
1	1-A	325[A]	ASN	2.1
1	2-A	325[B]	ASN	2.1
1	1-A	196[A]	GLY	2.1
1	2-A	196[B]	GLY	2.1
1	1-A	117[A]	ILE	2.1
1	2-A	117[B]	ILE	2.1
1	1-B	166[A]	ALA	2.1
1	2-B	166[B]	ALA	2.1
1	1-B	169(A)[A]	TYR	2.1

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Mol	Chain	Res	Type	RSRZ
1	2-B	169(A)[B]	TYR	2.1
1	1-B	266[A]	ILE	2.1
1	2-B	266[B]	ILE	2.1
1	1-B	111[A]	LYS	2.1
1	2-B	111[B]	LYS	2.1
1	1-B	238[A]	PHE	2.1
1	1-B	442[A]	SER	2.1
1	2-B	238[B]	PHE	2.1
1	2-B	442[B]	SER	2.1
1	1-B	239[A]	THR	2.1
1	1-B	344[A]	ASN	2.1
1	2-B	239[B]	THR	2.1
1	2-B	344[B]	ASN	2.1
1	1-B	144[A]	HIS	2.1
1	2-B	144[B]	HIS	2.1
1	1-A	462[A]	ALA	2.1
1	2-A	462[B]	ALA	2.1
1	1-A	165[A]	GLU	2.1
1	2-A	165[B]	GLU	2.1
1	1-A	231[A]	ALA	2.0
1	1-A	414[A]	GLY	2.0
1	2-A	231[B]	ALA	2.0
1	2-A	414[B]	GLY	2.0
1	1-A	293[A]	ASP	2.0
1	2-A	293[B]	ASP	2.0
1	1-A	88[A]	ASN	2.0
1	2-A	88[B]	ASN	2.0
1	1-A	445[A]	SER	2.0
1	2-A	445[B]	SER	2.0
1	1-A	211[A]	ILE	2.0
1	1-A	436[A]	THR	2.0
1	2-A	211[B]	ILE	2.0
1	2-A	436[B]	THR	2.0
1	1-A	271[A]	PRO	2.0
1	1-A	348[A]	GLY	2.0
1	1-B	87[A]	GLY	2.0
1	2-A	271[B]	PRO	2.0
1	2-A	348[B]	GLY	2.0
1	2-B	87[B]	GLY	2.0
1	1-B	140[A]	LEU	2.0
1	2-B	140[B]	LEU	2.0
1	1-B	401[A]	THR	2.0

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Mol	Chain	Res	Type	RSRZ
1	2-B	401[B]	THR	2.0

6.2 Non-standard residues in protein, DNA, RNA chains [i](#)

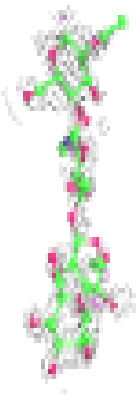

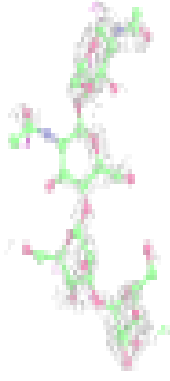
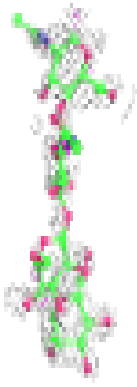


There are no non-standard protein/DNA/RNA residues in this entry.

6.3 Carbohydrates [i](#)

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
2	MAN	1-C	3[A]	11/12	0.21	0.55	64,67,68,68	11
2	MAN	2-C	3[B]	11/12	0.21	0.55	47,47,47,48	11
2	NAG	2-C	1[B]	14/15	0.21	0.35	35,37,39,41	14
2	NAG	1-C	1[A]	14/15	0.21	0.35	49,54,56,60	14
2	NAG	2-C	2[B]	14/15	0.23	0.54	43,45,45,46	14
2	NAG	1-C	2[A]	14/15	0.23	0.54	63,66,67,68	14
2	MAN	1-C	4[A]	11/12	0.40	0.59	59,61,62,62	11
2	MAN	2-C	4[B]	11/12	0.40	0.59	49,49,49,49	11

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.

<p>Electron density around Chain C:</p> <p>$2mF_o-DF_c$ (at 0.7 rmsd) in gray mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)</p>	
	
<p>Electron density around Chain C:</p> <p>$2mF_o-DF_c$ (at 0.7 rmsd) in gray mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)</p>	
	

6.4 Ligands ⓘ

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
3	NAG	1-A	1001[A]	14/15	0.41	0.29	42,46,48,49	14
3	NAG	2-A	1001[B]	14/15	0.41	0.29	31,32,33,33	14
5	ACT	2-B	3004[B]	4/4	0.60	0.30	19,19,19,19	4
5	ACT	1-B	3004[A]	4/4	0.60	0.30	19,22,23,23	4
7	GOL	1-B	1008[A]	6/6	0.67	0.28	44,48,49,50	6
7	GOL	2-B	1008[B]	6/6	0.67	0.28	34,35,36,36	6
7	GOL	2-B	1005[B]	6/6	0.69	0.58	23,24,25,26	6
6	PO4	1-A	1000[A]	5/5	0.72	0.19	47,48,49,51	5
4	CA	2-A	5[B]	1/1	0.73	0.14	43,43,43,43	1
4	CA	1-A	5[A]	1/1	0.73	0.14	53,53,53,53	1
7	GOL	2-A	1004[B]	6/6	0.74	0.26	16,16,17,18	6
5	ACT	1-A	3003[A]	4/4	0.79	0.14	46,46,46,46	4
7	GOL	2-A	3004[B]	6/6	0.80	0.51	23,24,24,24	6
7	GOL	1-A	3004[A]	6/6	0.80	0.51	37,40,41,42	6
7	GOL	1-A	1009[A]	6/6	0.82	0.47	28,35,37,39	6
7	GOL	1-A	1005[A]	6/6	0.85	0.19	30,35,36,37	6
7	GOL	1-B	1004[A]	6/6	0.89	0.13	34,34,36,37	6
5	ACT	1-A	3002[A]	4/4	0.89	0.19	23,25,25,26	4
5	ACT	1-B	3001[A]	4/4	0.91	0.11	43,43,43,44	4
7	GOL	1-B	1002[A]	6/6	0.92	0.09	19,27,29,31	6
7	GOL	1-B	1007[A]	6/6	0.93	0.27	32,34,35,35	6
7	GOL	2-B	1007[B]	6/6	0.93	0.27	32,33,33,34	6
7	GOL	2-B	1009[B]	6/6	0.96	0.27	36,37,37,37	6
4	CA	2-A	1[B]	1/1	0.97	0.18	11,11,11,11	1
7	GOL	1-A	1003[A]	6/6	0.97	0.20	38,41,43,45	6
7	GOL	2-A	1003[B]	6/6	0.97	0.20	29,30,31,31	6
4	CA	1-A	1[A]	1/1	0.97	0.18	11,11,11,11	1
7	GOL	2-A	1002[B]	6/6	0.98	0.14	12,17,17,19	6
5	ACT	1-A	3000[A]	4/4	0.98	0.13	55,55,56,56	4
5	ACT	2-A	3000[B]	4/4	0.98	0.13	65,65,65,65	4
7	GOL	2-A	3005[B]	6/6	0.99	0.10	9,13,15,15	6
4	CA	2-A	2[B]	1/1	0.99	0.06	14,14,14,14	1
4	CA	1-B	4[A]	1/1	0.99	0.03	11,11,11,11	1
4	CA	1-B	3[A]	1/1	0.99	0.04	12,12,12,12	1
7	GOL	1-A	3005[A]	6/6	0.99	0.10	20,24,28,34	6
4	CA	1-A	2[A]	1/1	0.99	0.06	12,12,12,12	1
7	GOL	1-B	1006[A]	6/6	0.99	0.14	28,31,33,36	6

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
4	CA	2-A	3[B]	1/1	0.99	0.04	16,16,16,16	1
7	GOL	2-B	1006[B]	6/6	0.99	0.14	37,38,38,38	6

6.5 Other polymers [i](#)

There are no such residues in this entry.