



Full wwPDB X-ray Structure Validation Report ⓘ

Apr 20, 2021 – 01:17 pm BST

PDB ID : 6ZBX
Title : Structure of the catalytic domain of the Bacillus circulans alpha-1,6 Mannanase in complex with an alpha-1,6- alpha-manno-cyclophellitol carbasugar-stabilised trisaccharide inhibitor
Authors : Schroeder, S.; Offen, W.A.; Jin, Y.; De Boer, C.; Enoterpi, J.; Marino, L.; van der Marel, G.A.; Codee, J.D.C.; Overkleeft, H.S.; Davies, G.J.
Deposited on : 2020-06-09
Resolution : 1.35 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 : 2.18
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) : 2.18

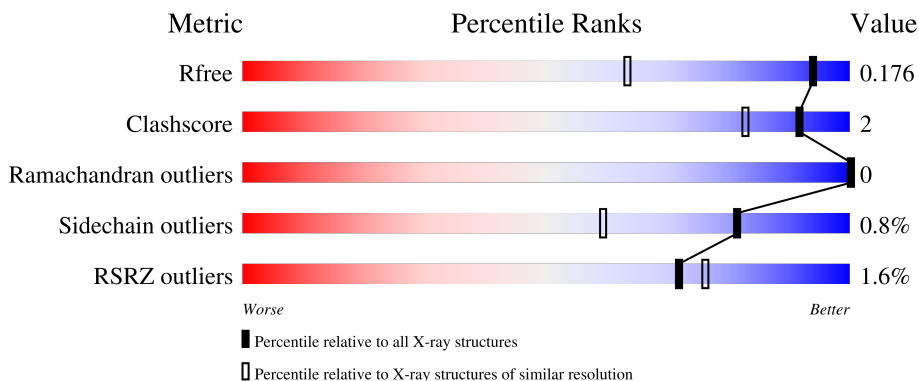
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

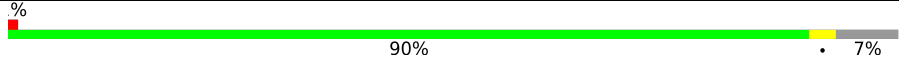
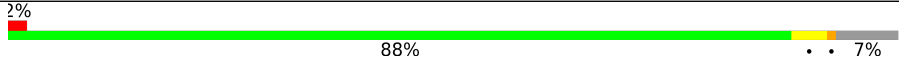
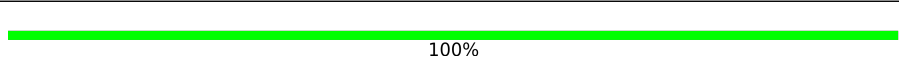
The reported resolution of this entry is 1.35 Å.

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	1509 (1.38-1.34)
Clashscore	141614	1551 (1.38-1.34)
Ramachandran outliers	138981	1530 (1.38-1.34)
Sidechain outliers	138945	1530 (1.38-1.34)
RSRZ outliers	127900	1487 (1.38-1.34)

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	362	 90% 7%
1	B	362	 88% 7%
2	E	4	 100%

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
3	EDO	B	601	-	X	-	-

2 Entry composition i

There are 7 unique types of molecules in this entry. The entry contains 6116 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 Alpha-1,6-mannanase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	337	2719	1725	457	527	10	0	5	0
1	B	337	2717	1726	454	527	10	0	6	0

There are 44 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	14	MET	-	initiating methionine	UNP Q9Z4P9
A	15	GLY	-	expression tag	UNP Q9Z4P9
A	16	SER	-	expression tag	UNP Q9Z4P9
A	17	SER	-	expression tag	UNP Q9Z4P9
A	18	HIS	-	expression tag	UNP Q9Z4P9
A	19	HIS	-	expression tag	UNP Q9Z4P9
A	20	HIS	-	expression tag	UNP Q9Z4P9
A	21	HIS	-	expression tag	UNP Q9Z4P9
A	22	HIS	-	expression tag	UNP Q9Z4P9
A	23	HIS	-	expression tag	UNP Q9Z4P9
A	24	SER	-	expression tag	UNP Q9Z4P9
A	25	SER	-	expression tag	UNP Q9Z4P9
A	26	GLY	-	expression tag	UNP Q9Z4P9
A	27	LEU	-	expression tag	UNP Q9Z4P9
A	28	GLU	-	expression tag	UNP Q9Z4P9
A	29	VAL	-	expression tag	UNP Q9Z4P9
A	30	LEU	-	expression tag	UNP Q9Z4P9
A	31	PHE	-	expression tag	UNP Q9Z4P9
A	32	GLN	-	expression tag	UNP Q9Z4P9
A	33	GLY	-	expression tag	UNP Q9Z4P9
A	34	PRO	-	expression tag	UNP Q9Z4P9
A	341	GLN	ARG	engineered mutation	UNP Q9Z4P9
B	14	MET	-	initiating methionine	UNP Q9Z4P9
B	15	GLY	-	expression tag	UNP Q9Z4P9
B	16	SER	-	expression tag	UNP Q9Z4P9

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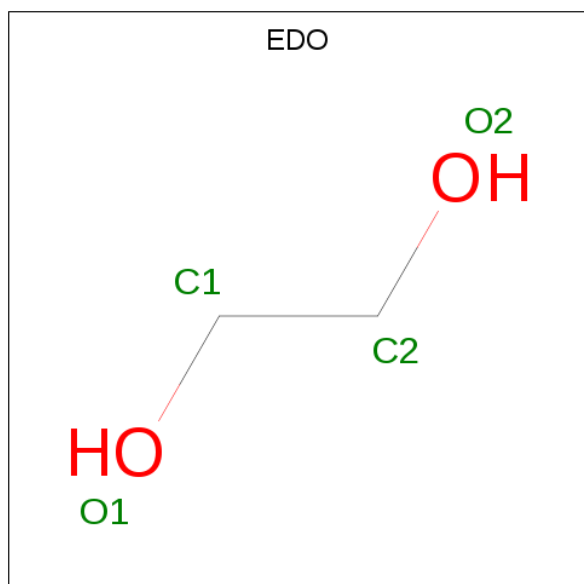
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Chain	Residue	Modelled	Actual	Comment	Reference
B	17	SER	-	expression tag	UNP Q9Z4P9
B	18	HIS	-	expression tag	UNP Q9Z4P9
B	19	HIS	-	expression tag	UNP Q9Z4P9
B	20	HIS	-	expression tag	UNP Q9Z4P9
B	21	HIS	-	expression tag	UNP Q9Z4P9
B	22	HIS	-	expression tag	UNP Q9Z4P9
B	23	HIS	-	expression tag	UNP Q9Z4P9
B	24	SER	-	expression tag	UNP Q9Z4P9
B	25	SER	-	expression tag	UNP Q9Z4P9
B	26	GLY	-	expression tag	UNP Q9Z4P9
B	27	LEU	-	expression tag	UNP Q9Z4P9
B	28	GLU	-	expression tag	UNP Q9Z4P9
B	29	VAL	-	expression tag	UNP Q9Z4P9
B	30	LEU	-	expression tag	UNP Q9Z4P9
B	31	PHE	-	expression tag	UNP Q9Z4P9
B	32	GLN	-	expression tag	UNP Q9Z4P9
B	33	GLY	-	expression tag	UNP Q9Z4P9
B	34	PRO	-	expression tag	UNP Q9Z4P9
B	341	GLN	ARG	engineered mutation	UNP Q9Z4P9

- Molecule 2 is a protein called UNK-UNK-UNK-UNK.

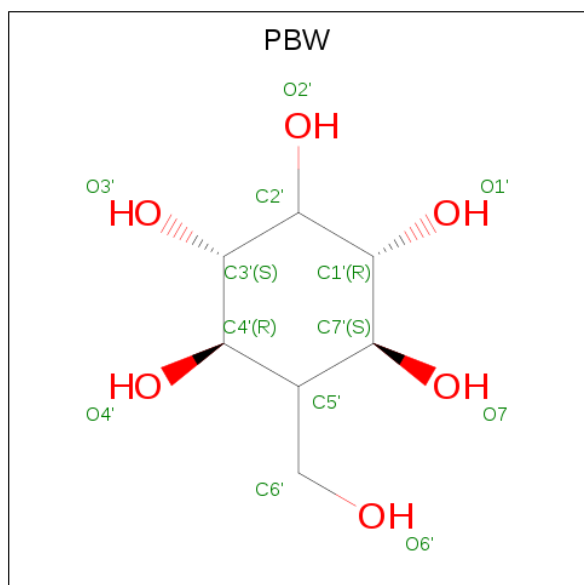
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
2	E	4	20	12	4	4	0	0	0

- Molecule 3 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: C₂H₆O₂).



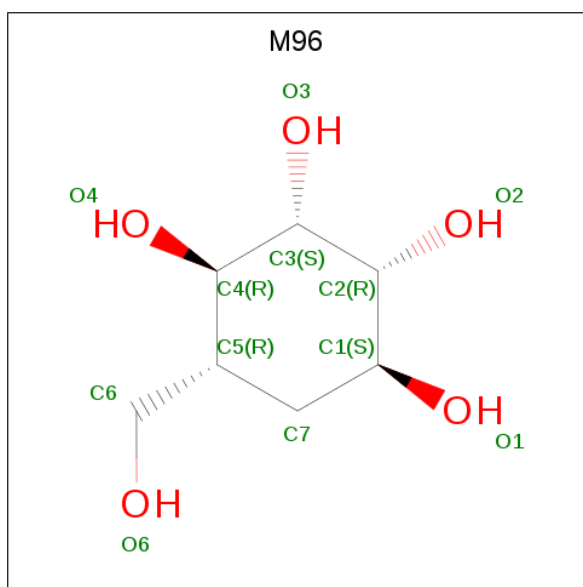
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total C O 4 2 2	0	0
3	B	1	Total C O 4 2 2	0	0

- Molecule 4 is (1 {S},4 {S},5 {R})-6-(hydroxymethyl)cyclohexane-1,2,3,4,5-pentol (three-letter code: PBW) (formula: C₇H₁₄O₆).



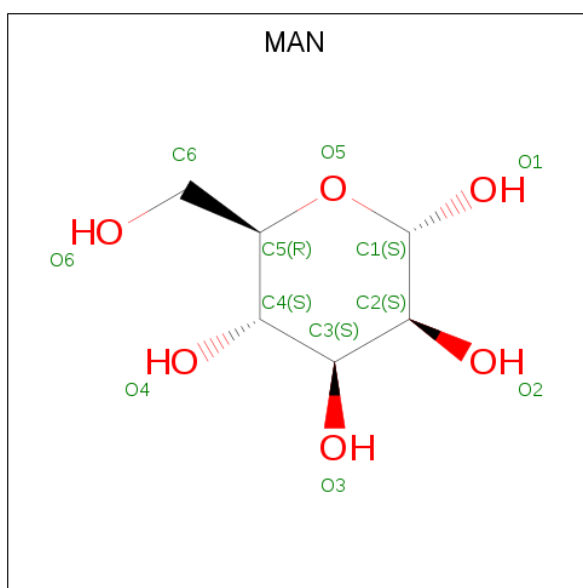
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	1	Total C O 12 7 5	0	0
4	B	1	Total C O 12 7 5	0	0

- Molecule 5 is (1 {S},2 {R},3 {S},4 {R},5 {R})-5-(hydroxymethyl)cyclohexane-1,2,3,4-tetrol (three-letter code: M96) (formula: C₇H₁₄O₅).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	A	1	Total	C	O	0	0
			11	7	4		
5	B	1	Total	C	O	0	0
			11	7	4		

- Molecule 6 is alpha-D-mannopyranose (three-letter code: MAN) (formula: C₆H₁₂O₆).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
6	A	1	Total	C	O	0	0
			11	6	5		
6	B	1	Total	C	O	0	0
			11	6	5		

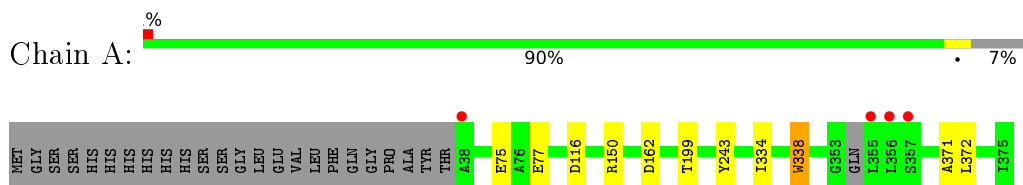
- Molecule 7 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	A	299	Total 300	O 300	0	1
7	B	282	Total 282	O 282	0	0
7	E	2	Total 2	O 2	0	0

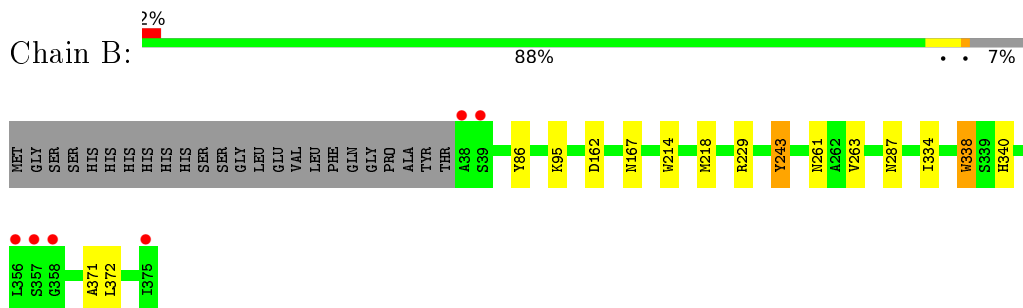
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red dot above a residue indicates a poor fit to the electron density ($RSRZ > 2$). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

- Molecule 1: Alpha-1,6-mannanase



- Molecule 1: Alpha-1,6-mannanase



- Molecule 2: UNK-UNK-UNK-UNK



There are no outlier residues recorded for this chain.

4 Data and refinement statistics

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	47.37Å 51.09Å 66.20Å 93.61° 92.36° 98.21°	Depositor
Resolution (Å)	50.49 – 1.35 50.44 – 1.35	Depositor EDS
% Data completeness (in resolution range)	95.0 (50.49-1.35) 93.7 (50.44-1.35)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.50 (at 1.35Å)	Xtrriage
Refinement program	REFMAC 5.8.0258	Depositor
R, R_{free}	0.133 , 0.178 0.132 , 0.176	Depositor DCC
R_{free} test set	6221 reflections (4.94%)	wwPDB-VP
Wilson B-factor (Å ²)	14.0	Xtrriage
Anisotropy	0.166	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 41.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	6116	wwPDB-VP
Average B, all atoms (Å ²)	18.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 7.48% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: M96, PBW, MAN, EDO

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	0.79	2/2797 (0.1%)	0.90	1/3805 (0.0%)
1	B	0.81	0/2795	0.93	3/3805 (0.1%)
All	All	0.80	2/5592 (0.0%)	0.92	4/7610 (0.1%)

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	77	GLU	CD-OE2	6.29	1.32	1.25
1	A	75	GLU	CD-OE2	5.26	1.31	1.25

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	338	TRP	CA-CB-CG	-7.32	99.79	113.70
1	A	338	TRP	CA-CB-CG	-6.98	100.45	113.70
1	B	229	ARG	NE-CZ-NH1	5.65	123.12	120.30
1	B	243	TYR	CB-CG-CD1	5.28	124.17	121.00

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	2719	0	2479	5	0
1	B	2717	0	2466	9	0
2	E	20	0	6	0	0
3	A	4	0	6	0	0
3	B	4	0	6	3	0
4	A	12	0	0	0	0
4	B	12	0	0	0	0
5	A	11	0	0	0	0
5	B	11	0	0	0	0
6	A	11	0	10	0	0
6	B	11	0	10	0	0
7	A	300	0	0	1	0
7	B	282	0	0	3	0
7	E	2	0	0	0	0
All	All	6116	0	4983	17	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 2.

All (17) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:601:EDO:C1	3:B:601:EDO:O1	1.78	1.30
1:B:167:ASN:ND2	7:B:702:HOH:O	1.70	1.20
3:B:601:EDO:O1	3:B:601:EDO:C2	2.30	0.80
1:B:287:ASN:ND2	7:B:703:HOH:O	2.27	0.68
1:A:150[B]:ARG:NH1	1:A:199:THR:HG21	2.19	0.58
3:B:601:EDO:O1	3:B:601:EDO:H21	2.06	0.55
1:B:340[B]:HIS:HE1	7:B:838:HOH:O	1.95	0.50
1:B:340[A]:HIS:ND1	1:B:351:TRP:O	2.44	0.48
1:B:86:TYR:CE1	1:B:95[A]:LYS:HG2	2.48	0.48
1:A:334:ILE:HG12	1:A:371:ALA:HB1	1.94	0.48
1:A:116:ASP:O	7:A:701:HOH:O	2.20	0.47
1:B:214:TRP:NE1	1:B:218[A]:MET:HG3	2.29	0.47
1:A:338:TRP:CE2	1:A:372:LEU:HD11	2.52	0.45
1:B:338:TRP:CE2	1:B:372:LEU:HD11	2.53	0.43
1:B:261:ASN:OD1	1:B:263[A]:VAL:HG22	2.20	0.42
1:A:338:TRP:CE2	1:A:372:LEU:CD1	3.03	0.41
1:B:334:ILE:HG12	1:B:371:ALA:HB1	2.02	0.41

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	338/362 (93%)	337 (100%)	1 (0%)	0	100	100
1	B	339/362 (94%)	336 (99%)	3 (1%)	0	100	100
All	All	677/724 (94%)	673 (99%)	4 (1%)	0	100	100

There are no Ramachandran outliers to report.

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	271/294 (92%)	269 (99%)	2 (1%)	84	64
1	B	269/294 (92%)	267 (99%)	2 (1%)	84	64
All	All	540/588 (92%)	536 (99%)	4 (1%)	81	64

All (4) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	162	ASP
1	A	243	TYR
1	B	162	ASP
1	B	243	TYR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	119	ASN
1	B	310	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

8 ligands are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	EDO	A	601	-	3,3,3	0.43	0	2,2,2	0.50	0
5	M96	A	603	4,6	11,11,12	1.43	1 (9%)	13,15,17	1.13	1 (7%)
6	MAN	B	604	5	11,11,12	0.84	0	15,15,17	1.33	2 (13%)
5	M96	B	603	4,6	11,11,12	1.39	2 (18%)	13,15,17	1.83	4 (30%)
4	PBW	B	602	1,5	12,12,13	1.40	1 (8%)	14,17,19	0.58	0
3	EDO	B	601	-	3,3,3	4.24	1 (33%)	2,2,2	2.49	1 (50%)
6	MAN	A	604	5	11,11,12	1.02	0	15,15,17	0.66	0
4	PBW	A	602	1,5	12,12,13	1.63	3 (25%)	14,17,19	1.54	4 (28%)

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	EDO	A	601	-	-	1/1/1/1	-
5	M96	A	603	4,6	-	0/2/19/22	0/1/1/1
6	MAN	B	604	5	-	0/2/19/22	0/1/1/1
5	M96	B	603	4,6	-	0/2/19/22	0/1/1/1
4	PBW	B	602	1,5	-	0/2/22/26	0/1/1/1
3	EDO	B	601	-	-	1/1/1/1	-
6	MAN	A	604	5	-	0/2/19/22	0/1/1/1
4	PBW	A	602	1,5	-	0/2/22/26	0/1/1/1

All (8) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	601	EDO	O1-C1	7.13	1.78	1.42
5	A	603	M96	C5-C4	3.62	1.57	1.53
4	B	602	PBW	C5'-C4'	-2.72	1.50	1.53
4	A	602	PBW	C1'-C7'	-2.61	1.48	1.52
4	A	602	PBW	C6'-C5'	2.55	1.56	1.52
4	A	602	PBW	C5'-C4'	-2.32	1.50	1.53
5	B	603	M96	C2-C3	2.11	1.55	1.52
5	B	603	M96	C5-C4	2.08	1.55	1.53

All (12) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	B	603	M96	O6-C6-C5	-3.68	102.92	111.36
3	B	601	EDO	O1-C1-C2	-3.51	86.63	111.91
5	B	603	M96	C1-C2-C3	-3.50	107.14	111.16
6	B	604	MAN	O3-C3-C4	3.15	117.64	110.35
4	A	602	PBW	O3'-C3'-C2'	-2.64	104.95	109.99
4	A	602	PBW	O2'-C2'-C3'	2.56	115.27	110.14
5	A	603	M96	O6-C6-C5	-2.48	105.66	111.36
6	B	604	MAN	O5-C5-C6	-2.34	103.54	107.20
4	A	602	PBW	C2'-C3'-C4'	-2.21	107.07	110.89
4	A	602	PBW	C5'-C4'-C3'	-2.11	107.13	110.74
5	B	603	M96	O2-C2-C3	-2.07	105.99	110.14
5	B	603	M96	O4-C4-C3	-2.00	105.71	110.35

There are no chirality outliers.

All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	B	601	EDO	O1-C1-C2-O2
3	A	601	EDO	O1-C1-C2-O2

There are no ring outliers.

1 monomer is involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	B	601	EDO	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 [i](#)

6.1 Protein, DNA and RNA chains [i](#)

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	337/362 (93%)	-0.44	4 (1%) 79 83	10, 16, 27, 38	24 (7%)
1	B	337/362 (93%)	-0.38	7 (2%) 63 69	10, 17, 28, 33	23 (6%)
2	E	0/4	-	-	-	-
All	All	674/728 (92%)	-0.41	11 (1%) 72 76	10, 17, 28, 38	47 (6%)

All (11) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	355	LEU	7.3
1	A	355	LEU	4.7
1	B	375	ILE	4.6
1	B	38	ALA	4.2
1	A	38	ALA	3.9
1	A	357	SER	3.3
1	B	357	SER	3.3
1	A	356	LEU	3.2
1	B	356	LEU	2.9
1	B	39	SER	2.4
1	B	358	GLY	2.0

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

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

6.3 Carbohydrates [i](#)

There are no monosaccharides in this entry.

6.4 Ligands [i](#)

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
3	EDO	B	601	4/4	0.72	0.12	42,44,46,49	0
3	EDO	A	601	4/4	0.89	0.20	18,21,23,26	4
6	MAN	B	604	11/12	0.96	0.06	16,18,23,24	0
4	PBW	B	602	12/13	0.97	0.05	15,17,20,21	0
6	MAN	A	604	11/12	0.97	0.05	16,18,21,23	0
4	PBW	A	602	12/13	0.97	0.05	15,18,25,26	0
5	M96	A	603	11/12	0.98	0.04	12,13,16,16	0
5	M96	B	603	11/12	0.98	0.04	13,15,17,18	0

6.5 Other polymers [i](#)

There are no such residues in this entry.