



Full wwPDB X-ray Structure Validation Report ⓘ

Jan 8, 2024 – 01:13 am GMT

PDB ID : 5N7B
Title : Understanding the singular conformational landscape of the Tn antigens: Sulfur-for- oxygen substitution in the glycosidic linkage provides new insights into molecular recognition by an antibody
Authors : Companon, I.; Martinez-Saez, N.; Castro-Lopez, J.; Jimenez-Barbero, J.; Bernardes, G.J.L.; Busto, J.H.; Avenoza, A.; Jimenez-Oses, G.; Hurtado-Guerrero, R.; Peregrina, J.M.; Corzana, F.
Deposited on : 2017-02-20
Resolution : 1.70 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 : 4.02b-467
Mogul : 1.8.4, CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.36
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)

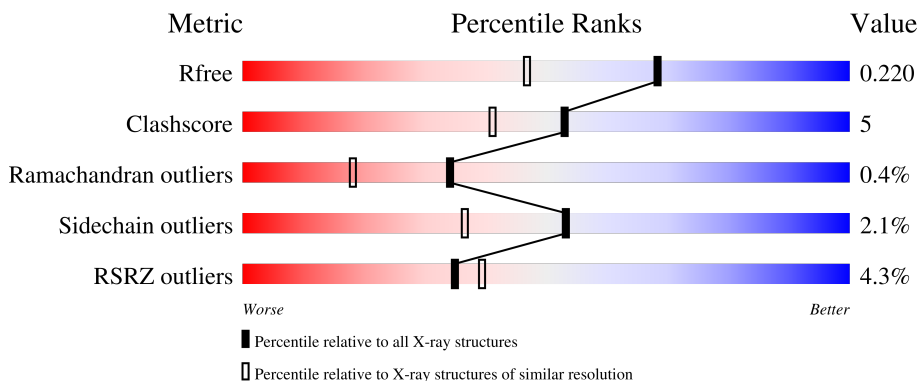
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.70 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	4298 (1.70-1.70)
Clashscore	141614	4695 (1.70-1.70)
Ramachandran outliers	138981	4610 (1.70-1.70)
Sidechain outliers	138945	4610 (1.70-1.70)
RSRZ outliers	127900	4222 (1.70-1.70)

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	H	244	
2	I	7	

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 crite-

Validation Pipeline (wwPDB-VP) : 2.36

ria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
3	EDO	H	1205	-	-	X	-

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 2081 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 Ig heavy chain V-III region J606,Ig lambda-1 chain V region S43.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	H	226	1757	1107	299	343	8	0	5	0

There are 29 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
H	1	GLN	GLU	conflict	UNP P01801
H	3	GLN	LYS	conflict	UNP P01801
H	5	GLN	GLU	conflict	UNP P01801
H	100	GLY	-	insertion	UNP P01801
H	101	VAL	-	insertion	UNP P01801
H	102	GLY	THR	conflict	UNP P01801
H	103	GLN	GLY	conflict	UNP P01801
H	114	THR	LEU	conflict	UNP P01801
H	990	SER	-	linker	UNP P01801
H	991	SER	-	linker	UNP P01801
H	992	SER	-	linker	UNP P01801
H	993	GLY	-	linker	UNP P01801
H	994	GLY	-	linker	UNP P01801
H	995	GLY	-	linker	UNP P01801
H	996	GLY	-	linker	UNP P01801
H	997	SER	-	linker	UNP P01801
H	998	GLY	-	linker	UNP P01801
H	999	GLY	-	linker	UNP P01801
H	1000	GLY	-	linker	UNP P01801
H	1001	GLY	-	linker	UNP P01801
H	1002	GLY	-	linker	UNP P01801
H	1003	SER	-	linker	UNP P01801
H	1004	SER	-	linker	UNP P01801
H	1005	GLY	-	linker	UNP P01801
H	1006	SER	-	linker	UNP P01801
H	1008	ASP	GLN	conflict	UNP P01727

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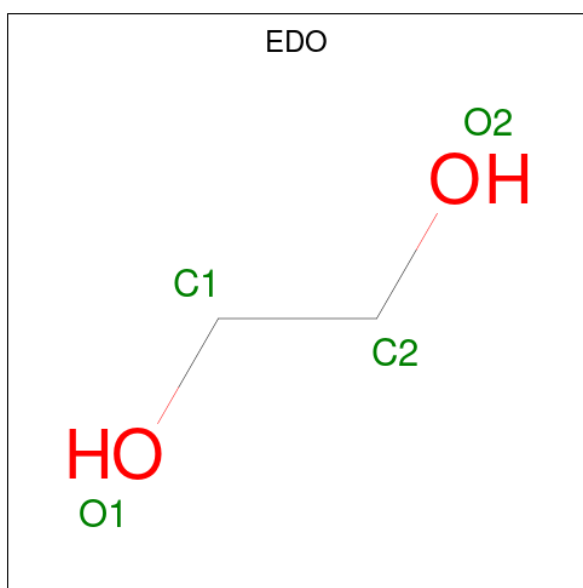
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Chain	Residue	Modelled	Actual	Comment	Reference
H	1009	ILE	ALA	conflict	UNP P01727
H	1087	ALA	THR	conflict	UNP P01727
H	1094	ILE	MET	conflict	UNP P01727

- Molecule 2 is a protein called APD(CG6)RP(NH2) peptide.

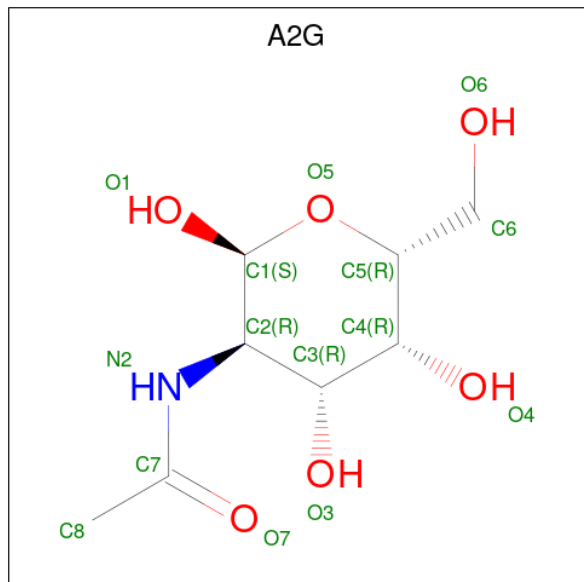
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	I	7	89	53	19	15	2	0	7	1

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



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

- Molecule 4 is 2-acetamido-2-deoxy- α -D-galactopyranose (three-letter code: A2G) (formula: $C_8H_{15}NO_6$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	N	O		
4	I	1	28	16	2	10	0	1

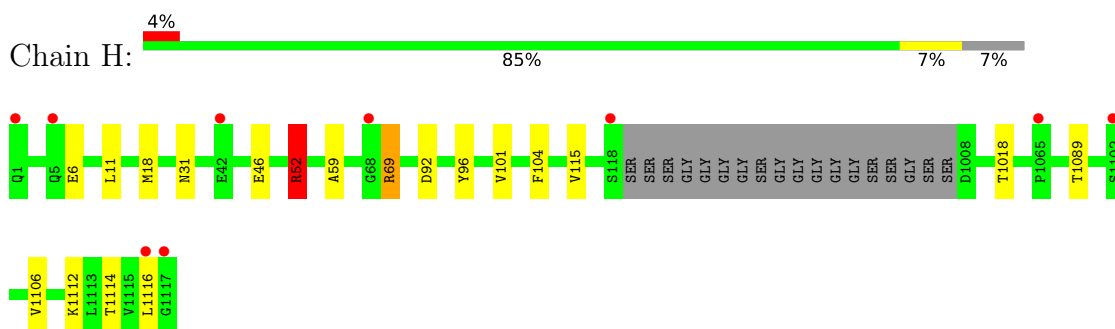
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	H	169	Total	O	0	0
			169	169		
5	I	10	Total	O	0	0
			10	10		

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: Ig heavy chain V-III region J606,Ig lambda-1 chain V region S43



- Molecule 2: APD(CG6)RP(NH2) peptide



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	35.40Å 68.65Å 90.92Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	20.00 – 1.70 19.22 – 1.70	Depositor EDS
% Data completeness (in resolution range)	99.8 (20.00-1.70) 99.9 (19.22-1.70)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.04 (at 1.70Å)	Xtrriage
Refinement program	REFMAC 5.8.0155	Depositor
R, R_{free}	0.176 , 0.211 0.186 , 0.220	Depositor DCC
R_{free} test set	675 reflections (2.69%)	wwPDB-VP
Wilson B-factor (Å ²)	20.1	Xtrriage
Anisotropy	0.519	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.38 , 41.2	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	2081	wwPDB-VP
Average B, all atoms (Å ²)	24.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 7.32% 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: EDO, NH2, A2G, CG6

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	H	0.59	1/1809 (0.1%)	0.76	3/2459 (0.1%)
2	I	4.60	8/76 (10.5%)	2.39	6/100 (6.0%)
All	All	1.09	9/1885 (0.5%)	0.88	9/2559 (0.4%)

All (9) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	I	5[A]	ARG	NE-CZ	24.38	1.64	1.33
2	I	5[B]	ARG	NE-CZ	24.38	1.64	1.33
1	H	104	PHE	C-N	14.19	1.66	1.34
2	I	5[A]	ARG	CZ-NH1	8.20	1.43	1.33
2	I	5[B]	ARG	CZ-NH1	8.20	1.43	1.33
2	I	5[A]	ARG	CZ-NH2	7.47	1.42	1.33
2	I	5[B]	ARG	CZ-NH2	7.47	1.42	1.33
2	I	6[A]	PRO	CA-C	-6.58	1.39	1.52
2	I	6[B]	PRO	CA-C	-6.58	1.39	1.52

All (9) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	69	ARG	NE-CZ-NH2	-9.16	115.72	120.30
2	I	5[A]	ARG	NE-CZ-NH2	-9.07	115.77	120.30
2	I	5[B]	ARG	NE-CZ-NH2	-9.07	115.77	120.30
1	H	69	ARG	NE-CZ-NH1	8.99	124.80	120.30
2	I	5[A]	ARG	CD-NE-CZ	-8.22	112.09	123.60
2	I	5[B]	ARG	CD-NE-CZ	-8.22	112.09	123.60
2	I	5[A]	ARG	NE-CZ-NH1	8.08	124.34	120.30
2	I	5[B]	ARG	NE-CZ-NH1	8.08	124.34	120.30
1	H	52	ARG	NE-CZ-NH1	6.61	123.60	120.30

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	H	1757	0	1693	17	0
2	I	89	0	76	3	0
3	H	28	0	42	6	0
4	I	28	0	24	0	0
5	H	169	0	0	3	0
5	I	10	0	0	0	0
All	All	2081	0	1835	20	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 5.

All (20) 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:H:46:GLU:HA	3:H:1205:EDO:C1	2.27	0.65
2:I:1[A]:ALA:HB1	2:I:2[A]:PRO:HD2	1.78	0.64
1:H:1106:VAL:HA	3:H:1205:EDO:H21	1.79	0.63
2:I:1[B]:ALA:HB1	2:I:2[B]:PRO:HD2	1.79	0.63
1:H:46:GLU:HA	3:H:1205:EDO:H12	1.81	0.63
1:H:1089[A]:THR:HG22	5:H:1354:HOH:O	2.02	0.60
1:H:1114:THR:HG22	1:H:1116:LEU:HD12	1.88	0.56
1:H:1106:VAL:HA	3:H:1205:EDO:C2	2.37	0.54
1:H:1018:THR:HG23	1:H:1116:LEU:HD13	1.90	0.53
1:H:46:GLU:HA	3:H:1205:EDO:H11	1.92	0.52
1:H:52:ARG:HG3	1:H:59:ALA:HB3	1.93	0.50
1:H:1114:THR:HG22	1:H:1116:LEU:CD1	2.42	0.49
1:H:18[B]:MET:HE1	1:H:115:VAL:HG13	1.95	0.48
3:H:1205:EDO:O2	5:H:1301:HOH:O	2.04	0.46
1:H:69:ARG:NH2	1:H:92:ASP:OD2	2.34	0.46
1:H:6[B]:GLU:OE1	1:H:96:TYR:O	2.35	0.45
1:H:18[B]:MET:HB2	1:H:18[B]:MET:HE2	1.77	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:31:ASN:HB3	2:I:5[B]:ARG:HH21	1.83	0.43
1:H:69:ARG:HD3	5:H:1414:HOH:O	2.19	0.42
1:H:1018:THR:CG2	1:H:1116:LEU:HD13	2.51	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	H	227/244 (93%)	219 (96%)	7 (3%)	1 (0%)	34 18
2	I	8/7 (114%)	6 (75%)	2 (25%)	0	100 100
All	All	235/251 (94%)	225 (96%)	9 (4%)	1 (0%)	34 18

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	H	101	VAL

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	H	189/192 (98%)	186 (98%)	3 (2%)	62 48
2	I	8/4 (200%)	6 (75%)	2 (25%)	0 0

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
All	All	197/196 (100%)	192 (98%)	5 (2%)	53 29

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

Mol	Chain	Res	Type
1	H	11	LEU
1	H	52	ARG
1	H	1112	LYS
2	I	5[A]	ARG
2	I	5[B]	ARG

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

Mol	Chain	Res	Type
1	H	13	GLN
1	H	1104	HIS

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

2 non-standard protein/DNA/RNA residues 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	CG6	I	4[A]	2,4	3,6,7	0.51	0	1,7,9	2.10	1 (100%)
2	CG6	I	4[B]	2,4	3,6,7	0.49	0	1,7,9	1.74	0

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the

Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	CG6	I	4[A]	2,4	-	0/3/6/8	-
2	CG6	I	4[B]	2,4	-	0/3/6/8	-

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	I	4[A]	CG6	O-C-CA	-2.10	119.27	124.78

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

9 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	H	1202	-	3,3,3	0.59	0	2,2,2	0.17	0
4	A2G	I	101[A]	2	14,14,15	0.88	0	17,19,21	2.32	3 (17%)
3	EDO	H	1203	-	3,3,3	0.43	0	2,2,2	0.22	0
3	EDO	H	1201	-	3,3,3	0.45	0	2,2,2	0.32	0
3	EDO	H	1206	-	3,3,3	0.51	0	2,2,2	0.26	0
4	A2G	I	101[B]	2	14,14,15	0.38	0	17,19,21	0.94	1 (5%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	EDO	H	1207	-	3,3,3	0.67	0	2,2,2	0.16	0
3	EDO	H	1205	-	3,3,3	0.24	0	2,2,2	0.24	0
3	EDO	H	1204	-	3,3,3	0.45	0	2,2,2	0.22	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	EDO	H	1202	-	-	0/1/1/1	-
4	A2G	I	101[A]	2	-	2/6/23/26	0/1/1/1
3	EDO	H	1203	-	-	0/1/1/1	-
3	EDO	H	1201	-	-	0/1/1/1	-
3	EDO	H	1206	-	-	0/1/1/1	-
4	A2G	I	101[B]	2	-	2/6/23/26	0/1/1/1
3	EDO	H	1207	-	-	0/1/1/1	-
3	EDO	H	1205	-	-	1/1/1/1	-
3	EDO	H	1204	-	-	0/1/1/1	-

There are no bond length outliers.

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	I	101[A]	A2G	C1-O5-C5	-6.73	103.07	112.19
4	I	101[A]	A2G	C1-C2-N2	-4.80	102.28	110.49
4	I	101[A]	A2G	O6-C6-C5	-3.11	100.63	111.29
4	I	101[B]	A2G	O5-C1-C2	-2.43	107.44	111.29

There are no chirality outliers.

All (5) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	I	101[A]	A2G	O5-C5-C6-O6
4	I	101[B]	A2G	O5-C5-C6-O6
4	I	101[A]	A2G	C4-C5-C6-O6
4	I	101[B]	A2G	C4-C5-C6-O6
3	H	1205	EDO	O1-C1-C2-O2

There are no ring outliers.

1 monomer is involved in 6 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	H	1205	EDO	6	0

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	H	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	H	104:PHE	C	107:ALA	N	1.66

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	H	226/244 (92%)	0.17	9 (3%) 38 42	14, 21, 34, 56	0
2	I	5/7 (71%)	0.83	1 (20%) 1 0	22, 23, 38, 38	0
All	All	231/251 (92%)	0.18	10 (4%) 35 39	14, 21, 34, 56	0

All (10) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	H	1117	GLY	4.5
1	H	1102	SER	4.2
2	I	6[A]	PRO	2.7
1	H	42	GLU	2.5
1	H	68	GLY	2.5
1	H	1065	PRO	2.3
1	H	118	SER	2.3
1	H	1116	LEU	2.0
1	H	1	GLN	2.0
1	H	5	GLN	2.0

6.2 Non-standard residues in protein, DNA, RNA chains [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
2	CG6	I	4[A]	7/8	0.94	0.12	28,32,34,38	7
2	CG6	I	4[B]	7/8	0.94	0.12	27,30,32,35	7

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	H	1206	4/4	0.64	0.31	42,43,44,45	0
3	EDO	H	1207	4/4	0.78	0.20	27,32,34,38	0
3	EDO	H	1202	4/4	0.80	0.16	27,30,31,34	0
4	A2G	I	101[A]	14/15	0.81	0.37	42,45,46,47	14
4	A2G	I	101[B]	14/15	0.81	0.37	38,41,41,42	14
3	EDO	H	1204	4/4	0.83	0.20	27,31,34,37	0
3	EDO	H	1203	4/4	0.85	0.30	34,38,38,42	0
3	EDO	H	1205	4/4	0.89	0.24	28,30,32,36	0
3	EDO	H	1201	4/4	0.92	0.11	22,27,29,33	0

6.5 Other polymers [i](#)

There are no such residues in this entry.