



wwPDB X-ray Structure Validation Summary Report ⓘ

Jun 14, 2020 – 10:27 pm BST

PDB ID : 3ETO
Title : 2 Angstrom Xray structure of the NOTCH1 Negative Regulatory Region (NRR)
Authors : Gordon, W.R.; Blacklow, S.C.
Deposited on : 2008-10-08
Resolution : 2.00 Å(reported)

This is a wwPDB X-ray Structure Validation Summary 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 : 2.11
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) : 2.11

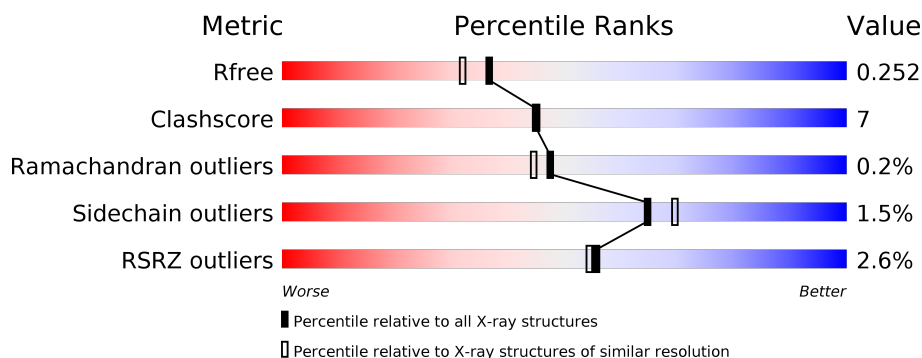
1 Overall quality at a glance ⓘ

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.00 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	8085 (2.00-2.00)
Clashscore	141614	9178 (2.00-2.00)
Ramachandran outliers	138981	9054 (2.00-2.00)
Sidechain outliers	138945	9053 (2.00-2.00)
RSRZ outliers	127900	7900 (2.00-2.00)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments on the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	242	<div> <div>2%</div> <div> <div></div> <div>87%</div> <div>8%</div> <div>• •</div> </div> </div>
1	B	242	<div> <div>3%</div> <div> <div></div> <div>83%</div> <div>12%</div> <div>•</div> </div> </div>

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 3884 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 Neurogenic locus notch homolog protein 1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	232	Total	C	N	O	S	0	0	0
			1782	1098	310	351	23			
1	B	232	Total	C	N	O	S	0	0	0
			1781	1096	312	350	23			

There are 96 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1446	GLY	-	EXPRESSION TAG	UNP P46531
A	?	-	ARG	DELETION	UNP P46531
A	?	-	GLU	DELETION	UNP P46531
A	?	-	GLU	DELETION	UNP P46531
A	?	-	GLU	DELETION	UNP P46531
A	?	-	LEU	DELETION	UNP P46531
A	?	-	ARG	DELETION	UNP P46531
A	?	-	LYS	DELETION	UNP P46531
A	?	-	HIS	DELETION	UNP P46531
A	?	-	PRO	DELETION	UNP P46531
A	?	-	ILE	DELETION	UNP P46531
A	?	-	LYS	DELETION	UNP P46531
A	?	-	ARG	DELETION	UNP P46531
A	?	-	ALA	DELETION	UNP P46531
A	?	-	ALA	DELETION	UNP P46531
A	?	-	GLU	DELETION	UNP P46531
A	?	-	GLY	DELETION	UNP P46531
A	?	-	TRP	DELETION	UNP P46531
A	?	-	ALA	DELETION	UNP P46531
A	?	-	ALA	DELETION	UNP P46531
A	?	-	PRO	DELETION	UNP P46531
A	?	-	ASP	DELETION	UNP P46531
A	?	-	ALA	DELETION	UNP P46531
A	?	-	LEU	DELETION	UNP P46531
A	?	-	LEU	DELETION	UNP P46531

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Chain	Residue	Modelled	Actual	Comment	Reference
A	?	-	GLY	DELETION	UNP P46531
A	?	-	GLN	DELETION	UNP P46531
A	?	-	VAL	DELETION	UNP P46531
A	?	-	LYS	DELETION	UNP P46531
A	?	-	ALA	DELETION	UNP P46531
A	?	-	SER	DELETION	UNP P46531
A	?	-	LEU	DELETION	UNP P46531
A	?	-	LEU	DELETION	UNP P46531
A	?	-	PRO	DELETION	UNP P46531
A	?	-	GLY	DELETION	UNP P46531
A	?	-	GLY	DELETION	UNP P46531
A	?	-	SER	DELETION	UNP P46531
A	?	-	GLU	DELETION	UNP P46531
A	?	-	GLY	DELETION	UNP P46531
A	?	-	GLY	DELETION	UNP P46531
A	?	-	ARG	DELETION	UNP P46531
A	?	-	ARG	DELETION	UNP P46531
A	?	-	ARG	DELETION	UNP P46531
A	?	-	ARG	DELETION	UNP P46531
A	?	-	GLU	DELETION	UNP P46531
A	?	-	LEU	DELETION	UNP P46531
A	?	-	ASP	DELETION	UNP P46531
A	?	-	PRO	DELETION	UNP P46531
B	1446	GLY	-	EXPRESSION TAG	UNP P46531
B	?	-	ARG	DELETION	UNP P46531
B	?	-	GLU	DELETION	UNP P46531
B	?	-	GLU	DELETION	UNP P46531
B	?	-	GLU	DELETION	UNP P46531
B	?	-	LEU	DELETION	UNP P46531
B	?	-	ARG	DELETION	UNP P46531
B	?	-	LYS	DELETION	UNP P46531
B	?	-	HIS	DELETION	UNP P46531
B	?	-	PRO	DELETION	UNP P46531
B	?	-	ILE	DELETION	UNP P46531
B	?	-	LYS	DELETION	UNP P46531
B	?	-	ARG	DELETION	UNP P46531
B	?	-	ALA	DELETION	UNP P46531
B	?	-	ALA	DELETION	UNP P46531
B	?	-	GLU	DELETION	UNP P46531
B	?	-	GLY	DELETION	UNP P46531
B	?	-	TRP	DELETION	UNP P46531
B	?	-	ALA	DELETION	UNP P46531

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Chain	Residue	Modelled	Actual	Comment	Reference
B	?	-	ALA	DELETION	UNP P46531
B	?	-	PRO	DELETION	UNP P46531
B	?	-	ASP	DELETION	UNP P46531
B	?	-	ALA	DELETION	UNP P46531
B	?	-	LEU	DELETION	UNP P46531
B	?	-	LEU	DELETION	UNP P46531
B	?	-	GLY	DELETION	UNP P46531
B	?	-	GLN	DELETION	UNP P46531
B	?	-	VAL	DELETION	UNP P46531
B	?	-	LYS	DELETION	UNP P46531
B	?	-	ALA	DELETION	UNP P46531
B	?	-	SER	DELETION	UNP P46531
B	?	-	LEU	DELETION	UNP P46531
B	?	-	LEU	DELETION	UNP P46531
B	?	-	PRO	DELETION	UNP P46531
B	?	-	GLY	DELETION	UNP P46531
B	?	-	GLY	DELETION	UNP P46531
B	?	-	SER	DELETION	UNP P46531
B	?	-	GLU	DELETION	UNP P46531
B	?	-	GLY	DELETION	UNP P46531
B	?	-	GLY	DELETION	UNP P46531
B	?	-	ARG	DELETION	UNP P46531
B	?	-	ARG	DELETION	UNP P46531
B	?	-	ARG	DELETION	UNP P46531
B	?	-	ARG	DELETION	UNP P46531
B	?	-	GLU	DELETION	UNP P46531
B	?	-	LEU	DELETION	UNP P46531
B	?	-	ASP	DELETION	UNP P46531
B	?	-	PRO	DELETION	UNP P46531

- Molecule 2 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	B	3	Total Ca 3 3	0	0
2	A	3	Total Ca 3 3	0	0

- Molecule 3 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

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

- Molecule 4 is GLYCEROL (three-letter code: GOL) (formula: $C_3H_8O_3$).



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

- Molecule 5 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	131	Total O 131 131	0	0

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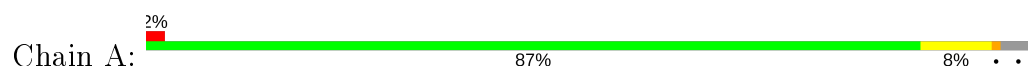
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	B	140	Total	O	0	0
			140	140		

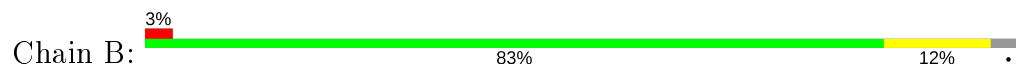
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA and DNA 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: Neurogenic locus notch homolog protein 1



- Molecule 1: Neurogenic locus notch homolog protein 1



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	169.93Å 91.76Å 59.84Å 90.00° 109.38° 90.00°	Depositor
Resolution (Å)	30.00 – 2.00 45.88 – 2.00	Depositor EDS
% Data completeness (in resolution range)	93.7 (30.00-2.00) 88.2 (45.88-2.00)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.05	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.28 (at 2.00Å)	Xtriage
Refinement program	REFMAC 5.4.0066	Depositor
R, R_{free}	0.211 , 0.252 0.213 , 0.252	Depositor DCC
R_{free} test set	2761 reflections (5.03%)	wwPDB-VP
Wilson B-factor (Å ²)	32.4	Xtriage
Anisotropy	0.332	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 44.1	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	0.190 for -h-2*k,l	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	3884	wwPDB-VP
Average B, all atoms (Å ²)	43.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.52% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: GOL, CA, CL

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	0.74	1/1823 (0.1%)	0.87	5/2474 (0.2%)
1	B	0.72	0/1822	0.88	3/2471 (0.1%)
All	All	0.73	1/3645 (0.0%)	0.88	8/4945 (0.2%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1
1	B	0	1
All	All	0	2

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	1522	CYS	CB-SG	-5.05	1.73	1.81

The worst 5 of 8 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	1622	GLY	O-C-N	-23.42	85.23	122.70
1	A	1622	GLY	O-C-N	-18.54	93.04	122.70
1	A	1622	GLY	CA-C-N	11.34	142.15	117.20
1	B	1622	GLY	CA-C-N	10.76	140.87	117.20
1	A	1569	ARG	NE-CZ-NH2	-7.46	116.57	120.30

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	1622	GLY	Mainchain
1	B	1622	GLY	Mainchain

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1782	0	1605	18	0
1	B	1781	0	1602	27	0
2	A	3	0	0	0	0
2	B	3	0	0	0	0
3	A	1	0	0	0	0
3	B	1	0	0	0	0
4	A	24	0	32	1	0
4	B	18	0	24	1	0
5	A	131	0	0	2	0
5	B	140	0	0	0	0
All	All	3884	0	3263	45	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 7.

The worst 5 of 45 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1449:ALA:HA	1:A:1472:ALA:HB1	1.38	1.01
1:B:1449:ALA:HA	1:B:1472:ALA:HB1	1.46	0.97
1:A:1493:GLN:HG2	5:A:11:HOH:O	1.70	0.90
1:B:1622:GLY:HA3	1:B:1672:VAL:O	1.83	0.77
1:B:1557:TRP:CD2	1:B:1685:GLN:HG2	2.20	0.76

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	230/242 (95%)	220 (96%)	10 (4%)	0	100	100
1	B	230/242 (95%)	219 (95%)	10 (4%)	1 (0%)	34	30
All	All	460/484 (95%)	439 (95%)	20 (4%)	1 (0%)	47	44

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	1451	GLU

5.3.2 Protein sidechains [i](#)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	195/206 (95%)	192 (98%)	3 (2%)	65	69
1	B	194/206 (94%)	191 (98%)	3 (2%)	65	69
All	All	389/412 (94%)	383 (98%)	6 (2%)	65	69

5 of 6 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1672	VAL
1	B	1680	GLU
1	B	1458	ASP
1	A	1600	VAL
1	B	1564	GLU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (5) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	1585	GLN
1	A	1615	GLN
1	A	1685	GLN
1	A	1692	GLN
1	B	1615	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 carbohydrates in this entry.

5.6 Ligand geometry [i](#)

Of 15 ligands modelled in this entry, 8 are monoatomic - leaving 7 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	$\# Z > 2$
4	GOL	A	1	-	5,5,5	0.23	0	5,5,5	0.59	0
4	GOL	A	1737	-	5,5,5	0.35	0	5,5,5	0.20	0
4	GOL	B	1735	-	5,5,5	0.26	0	5,5,5	0.69	0
4	GOL	B	1736	-	5,5,5	0.39	0	5,5,5	0.42	0
4	GOL	A	1736	-	5,5,5	0.45	0	5,5,5	0.32	0
4	GOL	A	1735	-	5,5,5	0.34	0	5,5,5	0.43	0
4	GOL	B	1737	-	5,5,5	0.35	0	5,5,5	0.31	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
4	GOL	A	1	-	-	2/4/4/4	-
4	GOL	A	1737	-	-	2/4/4/4	-
4	GOL	B	1735	-	-	4/4/4/4	-
4	GOL	B	1736	-	-	2/4/4/4	-
4	GOL	A	1736	-	-	4/4/4/4	-
4	GOL	A	1735	-	-	2/4/4/4	-
4	GOL	B	1737	-	-	0/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

5 of 16 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	B	1736	GOL	C1-C2-C3-O3
4	A	1	GOL	O1-C1-C2-C3
4	A	1737	GOL	O1-C1-C2-C3
4	B	1735	GOL	C1-C2-C3-O3
4	A	1736	GOL	C1-C2-C3-O3

There are no ring outliers.

2 monomers are involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	B	1736	GOL	1	0
4	A	1736	GOL	1	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	232/242 (95%)	0.11	4 (1%) 70 68	28, 41, 64, 71	0
1	B	232/242 (95%)	0.10	8 (3%) 45 44	29, 41, 63, 76	0
All	All	464/484 (95%)	0.11	12 (2%) 56 54	28, 41, 64, 76	0

The worst 5 of 12 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	1727	VAL	6.0
1	B	1453	PRO	4.3
1	B	1727	VAL	3.9
1	B	1611	ALA	3.2
1	A	1612	HIS	3.0

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 carbohydrates 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(\AA^2)	Q<0.9
4	GOL	B	1736	6/6	0.49	0.28	71,74,74,74	0
4	GOL	A	1737	6/6	0.52	0.31	83,85,85,85	0
4	GOL	A	1736	6/6	0.61	0.24	72,73,73,74	0
4	GOL	A	1735	6/6	0.79	0.24	86,86,86,86	0
4	GOL	A	1	6/6	0.81	0.14	60,60,63,66	0
4	GOL	B	1737	6/6	0.81	0.15	91,92,92,92	0
4	GOL	B	1735	6/6	0.85	0.19	53,59,60,61	0
2	CA	A	2001	1/1	0.93	0.14	47,47,47,47	0
2	CA	B	2003	1/1	0.98	0.11	34,34,34,34	0
2	CA	B	2001	1/1	0.98	0.13	46,46,46,46	0
2	CA	A	2003	1/1	0.99	0.13	36,36,36,36	0
2	CA	B	2002	1/1	0.99	0.15	44,44,44,44	0
2	CA	A	2002	1/1	0.99	0.12	45,45,45,45	0
3	CL	A	2	1/1	0.99	0.12	37,37,37,37	0
3	CL	B	1	1/1	0.99	0.10	40,40,40,40	0

6.5 Other polymers [i](#)

There are no such residues in this entry.