



Full wwPDB X-ray Structure Validation Report ⓘ

Oct 30, 2023 – 02:29 PM JST

PDB ID : 5B38
Title : KIR3DL1*005 in complex with HLA-B*57:01
Authors : Vivian, J.P.; Rossjohn, J.
Deposited on : 2016-02-12
Resolution : 2.30 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 : 1.8.5 (274361), CSD as541be (2020)
Xtrriage (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)
Validation Pipeline (wwPDB-VP) : 2.36

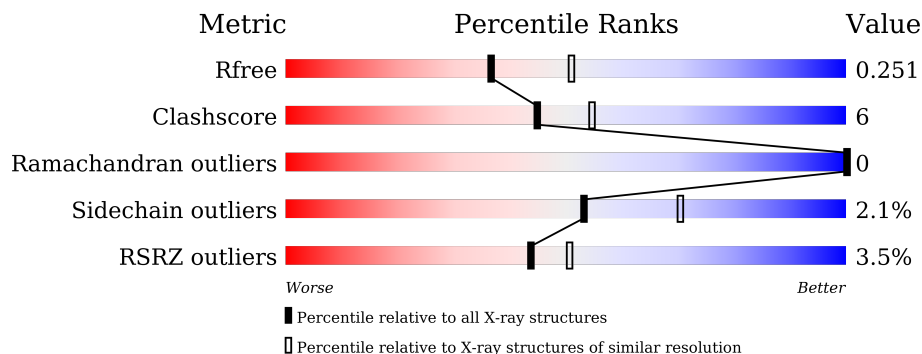
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.30 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	5042 (2.30-2.30)
Clashscore	141614	5643 (2.30-2.30)
Ramachandran outliers	138981	5575 (2.30-2.30)
Sidechain outliers	138945	5575 (2.30-2.30)
RSRZ outliers	127900	4938 (2.30-2.30)

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	276	
2	B	99	
3	C	9	
4	G	299	

2 Entry composition [i](#)

There are 6 unique types of molecules in this entry. The entry contains 5539 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 HLA class I histocompatibility antigen, B-57 alpha chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	275	2229	1391	405	424	9	0	0	0

- Molecule 2 is a protein called Beta-2-microglobulin.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	B	99	828	528	140	157	3	0	0	0

- Molecule 3 is a protein called peptide from Ig kappa chain C region.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
3	C	9	67	44	10	13	0	0	0

- Molecule 4 is a protein called Killer cell immunoglobulin-like receptor 3DL1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
4	G	273	2138	1358	391	376	13	0	1	0

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
G	182	SER	PRO	variant	UNP P43629
G	283	LEU	TRP	variant	UNP P43629

- Molecule 5 is 2-acetamido-2-deoxy-beta-D-glucopyranose (three-letter code: NAG) (formula: C₈H₁₅NO₆).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	N	O		
5	G	1	14	8	1	5	0	0
5	G	1	14	8	1	5	0	0
5	G	1	14	8	1	5	0	0

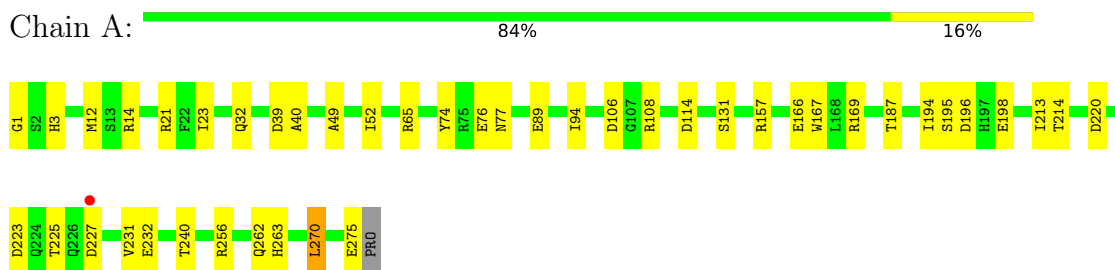
- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	O		
6	A	102	102	102	0	0
6	B	42	42	42	0	0
6	C	7	7	7	0	0
6	G	84	84	84	0	0

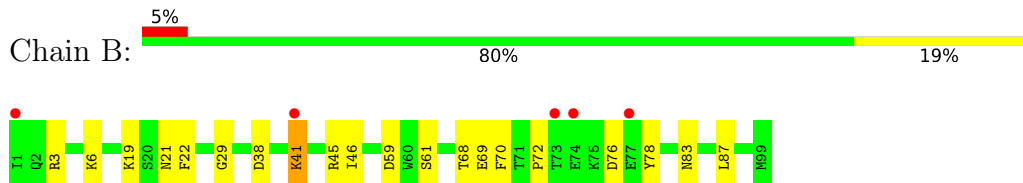
3 Residue-property plots [i](#)

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.

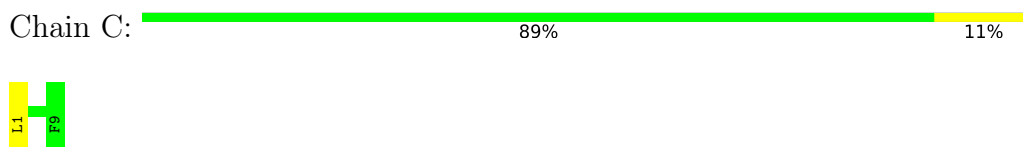
- Molecule 1: HLA class I histocompatibility antigen, B-57 alpha chain



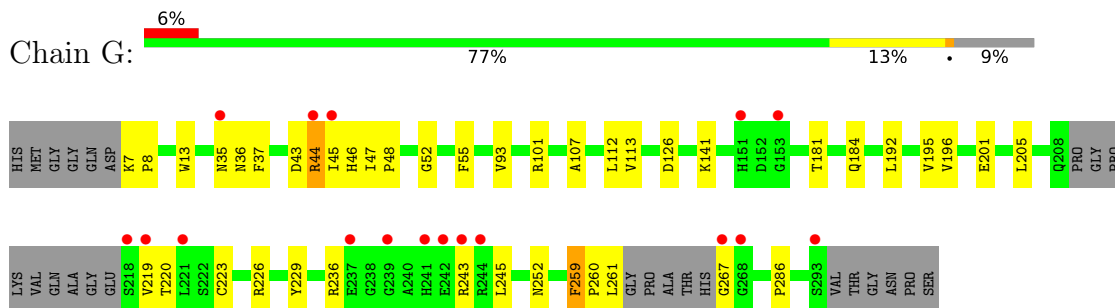
- Molecule 2: Beta-2-microglobulin



- Molecule 3: peptide from Ig kappa chain C region



- Molecule 4: Killer cell immunoglobulin-like receptor 3DL1



4 Data and refinement statistics

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	51.56Å 61.27Å 66.36Å 95.20° 100.25° 108.22°	Depositor
Resolution (Å)	35.50 – 2.30 46.70 – 2.30	Depositor EDS
% Data completeness (in resolution range)	92.0 (35.50-2.30) 91.9 (46.70-2.30)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.12 (at 2.29Å)	Xtrriage
Refinement program	PHENIX 1.9_1690	Depositor
R, R_{free}	0.196 , 0.251 0.202 , 0.251	Depositor DCC
R_{free} test set	1534 reflections (5.01%)	wwPDB-VP
Wilson B-factor (Å ²)	34.6	Xtrriage
Anisotropy	0.336	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 55.6	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	0.93	EDS
Total number of atoms	5539	wwPDB-VP
Average B, all atoms (Å ²)	41.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.44% 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: NAG

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	0.29	0/2290	0.42	0/3113
2	B	0.23	0/851	0.39	0/1152
3	C	0.23	0/68	0.35	0/91
4	G	0.31	0/2209	0.45	1/2998 (0.0%)
All	All	0.29	0/5418	0.42	1/7354 (0.0%)

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	G	259	PHE	C-N-CD	5.85	140.68	128.40

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	2229	0	2100	28	0
2	B	828	0	794	13	0
3	C	67	0	73	1	0
4	G	2138	0	2067	27	0
5	G	42	0	39	2	0
6	A	102	0	0	11	1

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	B	42	0	0	4	0
6	C	7	0	0	0	0
6	G	84	0	0	7	1
All	All	5539	0	5073	67	1

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 6.

All (67) 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)
4:G:286:PRO:O	6:G:401:HOH:O	1.88	0.92
1:A:114:ASP:OD1	6:A:301:HOH:O	1.89	0.90
4:G:46:HIS:NE2	6:G:403:HOH:O	2.09	0.85
2:B:83:ASN:OD1	6:B:101:HOH:O	1.99	0.79
1:A:40:ALA:O	6:A:302:HOH:O	2.04	0.75
2:B:76:ASP:OD1	6:B:102:HOH:O	2.03	0.75
4:G:101:ARG:HG2	6:G:452:HOH:O	1.89	0.72
2:B:46:ILE:HG21	2:B:68:THR:HG21	1.70	0.72
1:A:275:GLU:OE1	6:A:303:HOH:O	2.07	0.71
4:G:107:ALA:HB2	4:G:192:LEU:HD21	1.73	0.70
4:G:226:ARG:NH2	6:G:407:HOH:O	2.24	0.69
2:B:38:ASP:OD1	2:B:45:ARG:NH1	2.26	0.68
1:A:14:ARG:NH2	1:A:39:ASP:OD2	2.26	0.67
1:A:76:GLU:OE2	6:A:304:HOH:O	2.14	0.65
4:G:236:ARG:NH2	4:G:267:GLY:O	2.33	0.62
1:A:227:ASP:OD2	6:A:305:HOH:O	2.16	0.61
1:A:223:ASP:HB3	1:A:225:THR:HG23	1.82	0.61
5:G:303:NAG:O7	6:G:404:HOH:O	2.16	0.61
1:A:108:ARG:NH2	6:A:314:HOH:O	2.33	0.60
4:G:46:HIS:O	4:G:46:HIS:ND1	2.34	0.59
1:A:65:ARG:NH1	6:A:316:HOH:O	2.35	0.58
4:G:44:ARG:HD3	4:G:47:ILE:HD13	1.85	0.58
4:G:252:ASN:O	6:G:405:HOH:O	2.17	0.58
4:G:181:THR:HB	4:G:184:GLN:HB2	1.89	0.54
4:G:93:VAL:HG21	5:G:301:NAG:H82	1.90	0.53
1:A:1:GLY:HA2	1:A:3:HIS:CD2	2.44	0.53
2:B:41:LYS:NZ	2:B:76:ASP:OD1	2.41	0.52
4:G:243:ARG:NH2	6:G:415:HOH:O	2.34	0.51
4:G:205:LEU:HD13	4:G:223:CYS:HB3	1.93	0.50
1:A:12:MET:HB3	1:A:94:ILE:HG12	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:157:ARG:NH2	6:A:322:HOH:O	2.46	0.48
4:G:48:PRO:HB2	4:G:52:GLY:HA2	1.94	0.48
1:A:214:THR:OG1	1:A:262:GLN:HB3	2.13	0.48
2:B:19:LYS:O	2:B:72:PRO:HD2	2.14	0.48
1:A:187:THR:HG21	1:A:270:LEU:HD13	1.96	0.47
1:A:21:ARG:CZ	1:A:23:ILE:HD11	2.45	0.47
1:A:32:GLN:NE2	6:A:324:HOH:O	2.47	0.47
4:G:36:ASN:HA	4:G:55:PHE:O	2.14	0.46
4:G:220:THR:HG22	4:G:260:PRO:HA	1.97	0.46
1:A:65:ARG:HG3	6:A:379:HOH:O	2.16	0.46
1:A:74:TYR:HA	1:A:77:ASN:HB2	1.97	0.46
4:G:43:ASP:OD1	4:G:44:ARG:N	2.49	0.46
4:G:245:LEU:HB2	4:G:259:PHE:CE1	2.50	0.46
4:G:112:LEU:HD23	4:G:195:VAL:HB	1.97	0.46
2:B:21:ASN:OD1	2:B:22:PHE:N	2.41	0.45
4:G:219:VAL:O	4:G:261:LEU:HB2	2.17	0.45
1:A:232:GLU:OE2	2:B:6:LYS:NZ	2.33	0.45
1:A:49:ALA:O	1:A:52:ILE:HG22	2.17	0.45
1:A:214:THR:HG22	6:A:364:HOH:O	2.16	0.45
4:G:35:ASN:O	4:G:37:PHE:HD2	1.99	0.45
4:G:46:HIS:O	4:G:47:ILE:HD12	2.18	0.44
1:A:194:ILE:HB	1:A:198:GLU:HG3	1.98	0.44
1:A:166:GLU:OE1	1:A:169:ARG:NH1	2.51	0.44
1:A:106:ASP:OD1	1:A:106:ASP:N	2.44	0.43
2:B:6:LYS:HE2	2:B:29:GLY:HA3	2.01	0.43
2:B:87:LEU:O	6:B:101:HOH:O	2.22	0.43
4:G:201:GLU:O	4:G:229:TYR:OH	2.27	0.43
2:B:3:ARG:HH11	2:B:61:SER:HB3	1.83	0.42
4:G:113:VAL:O	4:G:196:VAL:HA	2.19	0.42
2:B:59:ASP:OD2	6:B:103:HOH:O	2.22	0.42
1:A:167:TRP:NE1	3:C:1:LEU:HD22	2.35	0.41
4:G:45:ILE:HD12	4:G:45:ILE:H	1.85	0.41
1:A:89:GLU:HG2	4:G:13:TRP:HZ2	1.84	0.41
1:A:220:ASP:OD1	1:A:256:ARG:HD2	2.20	0.41
1:A:213:ILE:HG13	1:A:263:HIS:HB2	2.03	0.41
4:G:7:LYS:HA	4:G:8:PRO:HD3	1.92	0.41
2:B:41:LYS:HG2	2:B:78:TYR:CE1	2.56	0.40

All (1) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A:355:HOH:O	6:G:479:HOH:O[1_445]	2.05	0.15

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	273/276 (99%)	266 (97%)	7 (3%)	0	100	100
2	B	97/99 (98%)	96 (99%)	1 (1%)	0	100	100
3	C	7/9 (78%)	6 (86%)	1 (14%)	0	100	100
4	G	268/299 (90%)	258 (96%)	10 (4%)	0	100	100
All	All	645/683 (94%)	626 (97%)	19 (3%)	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	229/230 (100%)	223 (97%)	6 (3%)	46	63
2	B	94/94 (100%)	91 (97%)	3 (3%)	39	54
3	C	9/9 (100%)	9 (100%)	0	100	100
4	G	235/256 (92%)	232 (99%)	3 (1%)	69	82
All	All	567/589 (96%)	555 (98%)	12 (2%)	53	70

All (12) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	131	SER
1	A	195	SER
1	A	196	ASP
1	A	231	VAL
1	A	240	THR
1	A	270	LEU
2	B	41	LYS
2	B	69	GLU
2	B	70	PHE
4	G	44	ARG
4	G	126	ASP
4	G	141	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	32	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](#)

3 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
5	NAG	G	301	4	14,14,15	1.57	2 (14%)	17,19,21	1.10	2 (11%)
5	NAG	G	302	4	14,14,15	1.54	3 (21%)	17,19,21	1.78	5 (29%)
5	NAG	G	303	4	14,14,15	1.56	2 (14%)	17,19,21	1.17	2 (11%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
5	NAG	G	301	4	-	2/6/23/26	0/1/1/1
5	NAG	G	302	4	-	4/6/23/26	0/1/1/1
5	NAG	G	303	4	-	0/6/23/26	0/1/1/1

All (7) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	G	301	NAG	O5-C1	3.99	1.50	1.43
5	G	303	NAG	O5-C1	3.97	1.50	1.43
5	G	302	NAG	O5-C1	3.76	1.49	1.43
5	G	302	NAG	C7-N2	2.59	1.43	1.34
5	G	301	NAG	C7-N2	2.56	1.43	1.34
5	G	303	NAG	C7-N2	2.55	1.43	1.34
5	G	302	NAG	O5-C5	2.21	1.47	1.43

All (9) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	G	302	NAG	C4-C3-C2	3.57	116.24	111.02
5	G	302	NAG	C3-C4-C5	3.49	116.46	110.24
5	G	303	NAG	C2-N2-C7	-2.49	119.36	122.90
5	G	302	NAG	C2-N2-C7	-2.47	119.38	122.90
5	G	301	NAG	C8-C7-N2	2.38	120.12	116.10
5	G	303	NAG	C8-C7-N2	2.35	120.08	116.10
5	G	302	NAG	C8-C7-N2	2.33	120.04	116.10
5	G	302	NAG	O5-C5-C4	2.20	116.18	110.83
5	G	301	NAG	C2-N2-C7	-2.00	120.05	122.90

There are no chirality outliers.

All (6) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	G	301	NAG	O5-C5-C6-O6
5	G	301	NAG	C4-C5-C6-O6
5	G	302	NAG	C8-C7-N2-C2
5	G	302	NAG	O7-C7-N2-C2
5	G	302	NAG	C4-C5-C6-O6
5	G	302	NAG	O5-C5-C6-O6

There are no ring outliers.

2 monomers are involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	G	301	NAG	1	0
5	G	303	NAG	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

6.1 Protein, DNA and RNA chains

In the following table, the column labelled ‘#RSRZ > 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q < 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	275/276 (99%)	0.09	1 (0%) 92 95	17, 35, 60, 84	0
2	B	99/99 (100%)	0.25	5 (5%) 28 35	22, 40, 74, 90	0
3	C	9/9 (100%)	-0.26	0 100 100	26, 27, 32, 33	0
4	G	273/299 (91%)	0.38	17 (6%) 20 26	22, 41, 74, 98	0
All	All	656/683 (96%)	0.23	23 (3%) 44 51	17, 37, 69, 98	0

All (23) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
4	G	35	ASN	5.1
4	G	293	SER	4.7
4	G	239	GLY	4.6
4	G	267	GLY	4.4
4	G	45	ILE	4.1
4	G	44	ARG	3.3
4	G	243	ARG	3.3
4	G	219	VAL	3.1
4	G	242	GLU	3.0
2	B	74	GLU	2.8
4	G	241	HIS	2.8
4	G	268	GLY	2.7
2	B	73	THR	2.6
1	A	227	ASP	2.5
4	G	221	LEU	2.4
4	G	244	ARG	2.3
4	G	237	GLU	2.3
4	G	218	SER	2.2
4	G	151	HIS	2.2
2	B	77	GLU	2.1
2	B	1	ILE	2.1

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Mol	Chain	Res	Type	RSRZ
2	B	41	LYS	2.1
4	G	153	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
5	NAG	G	303	14/15	0.82	0.26	58,78,89,91	0
5	NAG	G	302	14/15	0.85	0.22	51,64,77,89	0
5	NAG	G	301	14/15	0.87	0.16	49,61,76,79	0

6.5 Other polymers [i](#)

There are no such residues in this entry.