



Full wwPDB X-ray Structure Validation Report ⓘ

Oct 29, 2017 – 10:40 PM EDT

PDB ID : 3PV6
Title : Crystal structure of NKp30 bound to its ligand B7-H6
Authors : Li, Y.
Deposited on : unknown
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

<http://wwpdb.org/validation/2016/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 : 1.7.2 (RC1), CSD as538be (2017)
Xtriage (Phenix) : 1.9-1692
EDS : rb-20030345
Percentile statistics : 20161228.v01 (using entries in the PDB archive December 28th 2016)
Refmac : 5.8.0135
CCP4 : 6.5.0
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : rb-20030345

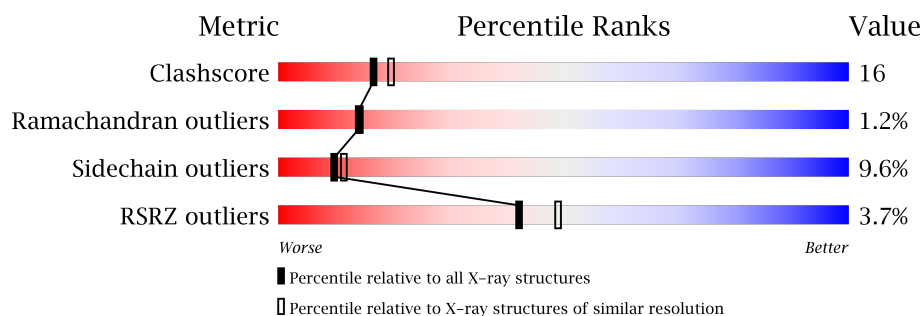
1 Overall quality at a glance

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))
Clashscore	112137	4751 (2.30-2.30)
Ramachandran outliers	110173	4705 (2.30-2.30)
Sidechain outliers	110143	4704 (2.30-2.30)
RSRZ outliers	101464	4156 (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 on the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. 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	248	
2	B	117	

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 2611 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-like domain-containing protein DKFZp686O24166/DKFZp686I21167.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	214	Total	C	N	O	S	0	0	0
			1681	1075	277	319	10			

There are 10 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	24	ALA	-	EXPRESSION TAG	UNP Q68D85
A	263	ALA	-	EXPRESSION TAG	UNP Q68D85
A	264	ALA	-	EXPRESSION TAG	UNP Q68D85
A	265	ALA	-	EXPRESSION TAG	UNP Q68D85
A	266	HIS	-	EXPRESSION TAG	UNP Q68D85
A	267	HIS	-	EXPRESSION TAG	UNP Q68D85
A	268	HIS	-	EXPRESSION TAG	UNP Q68D85
A	269	HIS	-	EXPRESSION TAG	UNP Q68D85
A	270	HIS	-	EXPRESSION TAG	UNP Q68D85
A	271	HIS	-	EXPRESSION TAG	UNP Q68D85

- Molecule 2 is a protein called Natural cytotoxicity triggering receptor 3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	112	Total	C	N	O	S	0	0	0
			859	538	162	157	2			

- Molecule 3 is N-ACETYL-D-GLUCOSAMINE (three-letter code: NAG) (formula: C₈H₁₅NO₆).



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

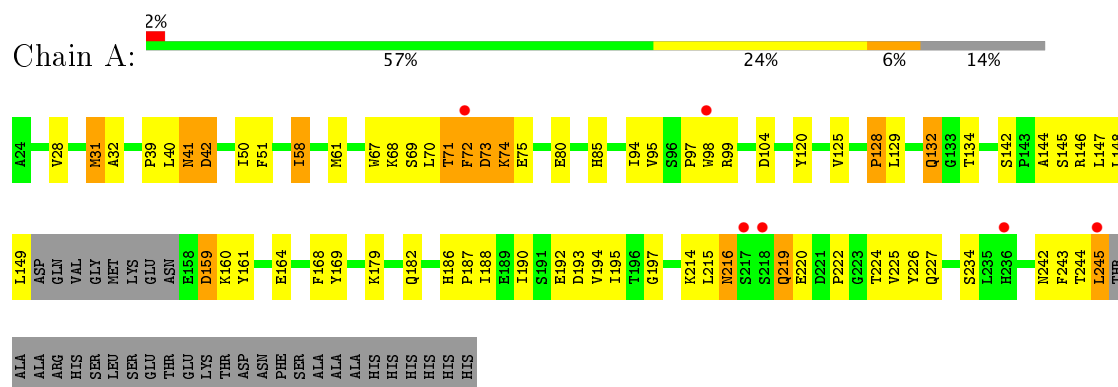
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	9	Total	O	0	0
			9	9		
4	B	6	Total	O	0	0
			6	6		

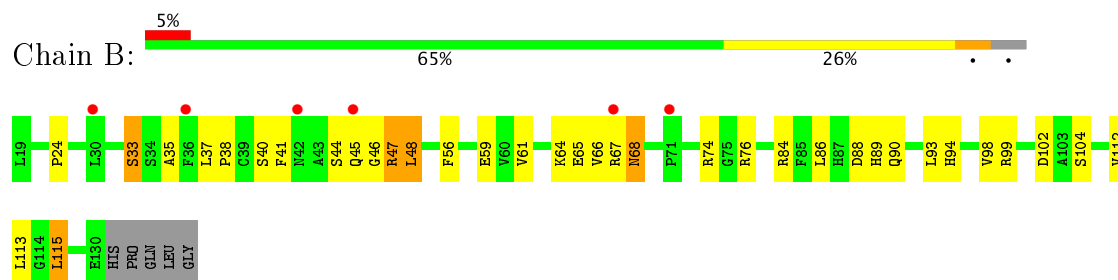
3 Residue-property plots [i](#)

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: Ig-like domain-containing protein DKFZp686O24166/DKFZp686I21167



- Molecule 2: Natural cytotoxicity triggering receptor 3



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	50.87Å 74.87Å 125.53Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	50.00 – 2.30 42.08 – 2.20	Depositor EDS
% Data completeness (in resolution range)	98.4 (50.00-2.30) 89.8 (42.08-2.20)	Depositor EDS
R_{merge}	0.09	Depositor
R_{sym}	0.07	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.97 (at 2.20Å)	Xtriage
Refinement program	CNS	Depositor
R, R_{free}	0.239 , 0.289 0.240 , (Not available)	Depositor DCC
R_{free} test set	No test flags present.	DCC
Wilson B-factor (Å ²)	42.2	Xtriage
Anisotropy	0.669	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 43.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	2611	wwPDB-VP
Average B, all atoms (Å ²)	51.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.76% 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: 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	0.90	1/1721 (0.1%)	0.92	1/2339 (0.0%)
2	B	0.88	0/878	0.93	0/1191
All	All	0.89	1/2599 (0.0%)	0.92	1/3530 (0.0%)

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

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	168	PHE	CE1-CZ	5.13	1.47	1.37

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	144	ALA	N-CA-C	-5.27	96.77	111.00

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	169	TYR	Sidechain

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	1681	0	1647	54	0
2	B	859	0	840	27	0
3	A	56	0	51	0	0
4	A	9	0	0	0	0
4	B	6	0	0	0	0
All	All	2611	0	2538	81	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 16.

All (81) 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:146:ARG:HH22	1:A:148:LEU:HD11	1.41	0.86
1:A:160:LYS:HG2	1:A:214:LYS:HG3	1.65	0.79
1:A:160:LYS:HE3	1:A:214:LYS:HD3	1.66	0.77
1:A:128:PRO:HD2	1:A:129:LEU:HD13	1.67	0.76
1:A:149:LEU:HD12	1:A:160:LYS:O	1.85	0.76
2:B:59:GLU:HG2	2:B:64:LYS:HG3	1.70	0.72
1:A:179:LYS:HB3	1:A:190:ILE:HD11	1.71	0.72
1:A:146:ARG:NH2	1:A:148:LEU:HD11	2.04	0.72
2:B:37:LEU:HD12	2:B:93:LEU:HD23	1.72	0.70
1:A:192:GLU:HG3	1:A:193:ASP:H	1.61	0.65
1:A:216:ASN:OD1	1:A:219:GLN:HB2	1.97	0.65
2:B:65:GLU:O	2:B:68:ASN:HB2	1.98	0.64
2:B:66:VAL:HG23	2:B:67:ARG:N	2.12	0.63
1:A:179:LYS:HE2	1:A:188:ILE:HD11	1.80	0.63
1:A:31:MET:CE	1:A:31:MET:HA	2.28	0.63
2:B:76:ARG:NH2	2:B:102:ASP:OD1	2.30	0.63
1:A:225:VAL:HG22	1:A:244:THR:HG22	1.80	0.61
1:A:72:PHE:CE2	1:A:74:LYS:HB2	2.35	0.61
2:B:56:PHE:CE2	2:B:65:GLU:HG2	2.35	0.61
2:B:84:ARG:O	2:B:88:ASP:HB2	2.03	0.59
2:B:33:SER:O	2:B:98:VAL:HG13	2.03	0.58
1:A:31:MET:HA	1:A:31:MET:HE3	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:24:PRO:HG3	2:B:38:PRO:HG2	1.85	0.58
2:B:88:ASP:O	2:B:89:HIS:HB2	2.04	0.57
1:A:192:GLU:O	1:A:193:ASP:HB2	2.03	0.57
1:A:71:THR:OG1	1:A:72:PHE:HD1	1.88	0.56
2:B:45:GLN:HG3	2:B:46:GLY:N	2.21	0.55
2:B:45:GLN:HG3	2:B:46:GLY:H	1.72	0.55
1:A:192:GLU:HG3	1:A:193:ASP:N	2.22	0.54
1:A:244:THR:O	1:A:245:LEU:CG	2.57	0.53
1:A:71:THR:HG1	1:A:72:PHE:HD1	1.54	0.53
1:A:160:LYS:HE3	1:A:214:LYS:CD	2.38	0.52
2:B:66:VAL:C	2:B:68:ASN:H	2.12	0.52
2:B:66:VAL:CG2	2:B:67:ARG:N	2.72	0.52
1:A:188:ILE:HD12	1:A:188:ILE:O	2.10	0.51
1:A:31:MET:HE2	1:A:32:ALA:H	1.74	0.51
2:B:44:SER:HB2	2:B:47:ARG:HB3	1.92	0.51
1:A:80:GLU:OE2	1:A:85:HIS:HE1	1.95	0.50
2:B:41:PHE:CZ	2:B:89:HIS:HA	2.47	0.50
1:A:222:PRO:C	1:A:224:THR:H	2.15	0.50
1:A:99:ARG:HB3	1:A:104:ASP:HB3	1.94	0.49
1:A:94:ILE:HG12	1:A:95:VAL:N	2.28	0.49
1:A:94:ILE:CG1	1:A:95:VAL:N	2.77	0.48
1:A:194:VAL:O	1:A:195:ILE:HD13	2.13	0.48
1:A:58:ILE:HA	1:A:61:MET:SD	2.55	0.47
2:B:48:LEU:HD13	2:B:86:LEU:HB3	1.96	0.47
1:A:186:HIS:HD2	1:A:187:PRO:O	1.98	0.47
1:A:39:PRO:O	1:A:42:ASP:HB2	2.14	0.47
1:A:161:TYR:CE1	1:A:215:LEU:HD12	2.50	0.47
1:A:68:LYS:NZ	1:A:73:ASP:O	2.42	0.47
2:B:24:PRO:CG	2:B:38:PRO:HG2	2.44	0.47
1:A:186:HIS:HA	1:A:187:PRO:HD3	1.75	0.46
1:A:244:THR:O	1:A:245:LEU:CB	2.63	0.46
2:B:74:ARG:HB3	2:B:74:ARG:CZ	2.45	0.46
1:A:39:PRO:HG2	1:A:42:ASP:CG	2.36	0.46
1:A:160:LYS:CG	1:A:214:LYS:HG3	2.43	0.46
1:A:215:LEU:HB3	1:A:216:ASN:H	1.57	0.45
1:A:67:TRP:CH2	1:A:69:SER:HB2	2.51	0.45
1:A:50:ILE:HG22	1:A:51:PHE:N	2.31	0.45
2:B:59:GLU:HG3	2:B:61:VAL:HG22	1.99	0.45
1:A:147:LEU:HD13	1:A:243:PHE:CD2	2.51	0.45
1:A:70:LEU:HD23	1:A:70:LEU:HA	1.70	0.44
2:B:40:SER:HB3	2:B:90:GLN:HE22	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:220:GLU:HB3	1:A:226:TYR:OH	2.17	0.44
2:B:35:ALA:HB2	2:B:98:VAL:HG11	2.00	0.44
1:A:227:GLN:HB3	1:A:242:ASN:HB3	1.99	0.43
1:A:244:THR:O	1:A:245:LEU:HG	2.18	0.43
2:B:76:ARG:HH22	2:B:102:ASP:CG	2.22	0.43
1:A:145:SER:HA	1:A:164:GLU:O	2.19	0.43
1:A:142:SER:HA	1:A:234:SER:OG	2.19	0.43
1:A:244:THR:O	1:A:245:LEU:HD23	2.19	0.43
1:A:132:GLN:HB3	1:A:132:GLN:HE21	1.69	0.42
2:B:40:SER:HB3	2:B:90:GLN:NE2	2.34	0.42
2:B:48:LEU:CD1	2:B:86:LEU:HB3	2.50	0.42
1:A:188:ILE:HD12	1:A:188:ILE:C	2.40	0.42
2:B:56:PHE:CE2	2:B:65:GLU:CG	3.01	0.41
1:A:220:GLU:OE1	1:A:226:TYR:OH	2.36	0.41
1:A:120:TYR:O	1:A:134:THR:HA	2.21	0.41
1:A:222:PRO:C	1:A:224:THR:N	2.75	0.40
2:B:112:VAL:HG11	2:B:115:LEU:HD22	2.04	0.40
1:A:40:LEU:HD12	1:A:41:ASN:N	2.37	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	A	210/248 (85%)	188 (90%)	18 (9%)	4 (2%)	9	8
2	B	110/117 (94%)	96 (87%)	14 (13%)	0	100	100
All	All	320/365 (88%)	284 (89%)	32 (10%)	4 (1%)	14	14

All (4) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	74	LYS
1	A	159	ASP
1	A	216	ASN
1	A	197	GLY

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	A	189/218 (87%)	171 (90%)	18 (10%)	10	12
2	B	91/97 (94%)	82 (90%)	9 (10%)	9	11
All	All	280/315 (89%)	253 (90%)	27 (10%)	10	11

All (27) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	28	VAL
1	A	31	MET
1	A	41	ASN
1	A	42	ASP
1	A	58	ILE
1	A	71	THR
1	A	72	PHE
1	A	73	ASP
1	A	75	GLU
1	A	97	PRO
1	A	98	TRP
1	A	125	VAL
1	A	128	PRO
1	A	132	GLN
1	A	159	ASP
1	A	182	GLN
1	A	219	GLN
1	A	245	LEU
2	B	33	SER
2	B	47	ARG

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Mol	Chain	Res	Type
2	B	48	LEU
2	B	68	ASN
2	B	94	HIS
2	B	99	ARG
2	B	104	SER
2	B	113	LEU
2	B	115	LEU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (8) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	85	HIS
1	A	132	GLN
1	A	186	HIS
2	B	42	ASN
2	B	68	ASN
2	B	90	GLN
2	B	101	HIS
2	B	121	ASN

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](#)

4 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	NAG	A	800	1,3	14,14,15	0.93	0	15,19,21	0.95	1 (6%)
3	NAG	A	801	3	14,14,15	1.01	1 (7%)	15,19,21	1.62	4 (26%)
3	NAG	A	820	1	14,14,15	1.02	1 (7%)	15,19,21	0.85	0
3	NAG	A	830	1	14,14,15	1.18	1 (7%)	15,19,21	1.05	2 (13%)

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	NAG	A	800	1,3	-	0/6/23/26	0/1/1/1
3	NAG	A	801	3	-	0/6/23/26	0/1/1/1
3	NAG	A	820	1	-	0/6/23/26	0/1/1/1
3	NAG	A	830	1	-	1/6/23/26	0/1/1/1

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	801	NAG	C4-C5	2.33	1.58	1.53
3	A	820	NAG	C3-C2	2.42	1.57	1.52
3	A	830	NAG	C1-C2	3.03	1.56	1.52

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	801	NAG	O5-C1-C2	-2.84	107.52	111.47
3	A	800	NAG	O5-C1-C2	-2.62	107.82	111.47
3	A	801	NAG	C2-N2-C7	-2.40	119.44	122.94
3	A	830	NAG	C1-O5-C5	-2.14	109.22	112.17
3	A	830	NAG	C4-C3-C2	2.23	114.29	111.02
3	A	801	NAG	C4-C3-C2	2.59	114.81	111.02
3	A	801	NAG	C3-C4-C5	2.94	115.39	110.22

There are no chirality outliers.

All (1) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	830	NAG	O7-C7-N2-C2

There are no ring outliers.

No monomer is involved in short contacts.

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	214/248 (86%)	0.13	6 (2%) 53 61	32, 48, 71, 81	0
2	B	112/117 (95%)	0.25	6 (5%) 26 33	35, 49, 78, 87	0
All	All	326/365 (89%)	0.17	12 (3%) 42 49	32, 48, 75, 87	0

All (12) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	218	SER	5.2
1	A	98	TRP	3.5
2	B	71	PRO	3.1
2	B	67	ARG	2.8
2	B	45	GLN	2.7
2	B	30	LEU	2.5
1	A	236	HIS	2.3
1	A	245	LEU	2.2
2	B	36	PHE	2.2
1	A	217	SER	2.2
1	A	72	PHE	2.1
2	B	42	ASN	2.1

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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. 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	LLDF	B-factors(\AA^2)	Q<0.9
3	NAG	A	800	14/15	0.97	0.10	-1.43	41,45,48,50	0
3	NAG	A	820	14/15	0.80	0.23	-	60,64,65,67	0
3	NAG	A	801	14/15	0.89	0.13	-	56,60,62,63	0
3	NAG	A	830	14/15	0.66	0.22	-	75,78,79,79	0

6.5 Other polymers [i](#)

There are no such residues in this entry.