



Full wwPDB X-ray Structure Validation Report ⓘ

Aug 8, 2020 – 10:30 AM BST

PDB ID : 4YEB
Title : Structural characterization of a synaptic adhesion complex
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Deposited on : 2015-02-23
Resolution : 3.19 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 : 2.13.1
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) : 2.13.1

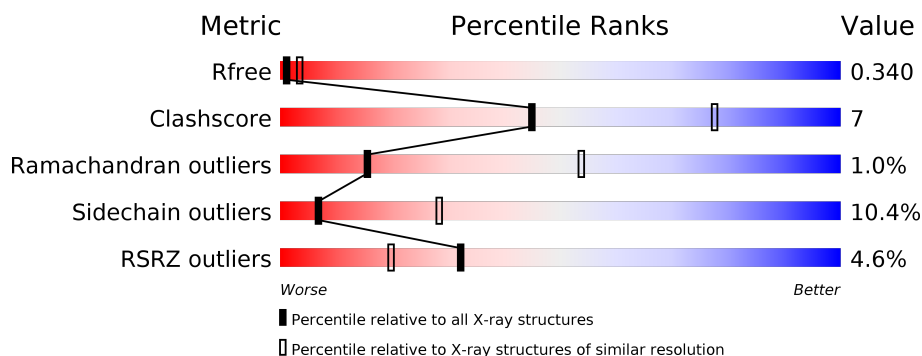
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.19 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	1133 (3.20-3.20)
Clashscore	141614	1253 (3.20-3.20)
Ramachandran outliers	138981	1234 (3.20-3.20)
Sidechain outliers	138945	1233 (3.20-3.20)
RSRZ outliers	127900	1095 (3.20-3.20)

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	321	<div> <div>6%</div> <div> <div></div> <div>62%</div> <div>19%</div> <div>•</div> <div>17%</div> </div> </div>
2	B	370	<div> <div>6%</div> <div> <div></div> <div>62%</div> <div>24%</div> <div>•</div> <div>13%</div> </div> </div>

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 4737 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 Latrophilin-3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	267	Total	C	N	O	S	0	0	0
			2163	1383	358	417	5			

There are 24 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	181	ALA	-	expression tag	UNP Q80TS3
A	182	PRO	-	expression tag	UNP Q80TS3
A	183	SER	-	expression tag	UNP Q80TS3
A	184	THR	-	expression tag	UNP Q80TS3
A	185	ASP	-	expression tag	UNP Q80TS3
A	186	HIS	-	expression tag	UNP Q80TS3
A	187	LEU	-	expression tag	UNP Q80TS3
A	188	ASP	-	expression tag	UNP Q80TS3
A	189	TYR	-	expression tag	UNP Q80TS3
A	190	LYS	-	expression tag	UNP Q80TS3
A	191	ASP	-	expression tag	UNP Q80TS3
A	192	ASP	-	expression tag	UNP Q80TS3
A	193	ASP	-	expression tag	UNP Q80TS3
A	194	ASP	-	expression tag	UNP Q80TS3
A	195	LYS	-	expression tag	UNP Q80TS3
A	196	ALA	-	expression tag	UNP Q80TS3
A	197	ALA	-	expression tag	UNP Q80TS3
A	198	ALA	-	expression tag	UNP Q80TS3
A	496	LEU	-	expression tag	UNP Q80TS3
A	497	GLU	-	expression tag	UNP Q80TS3
A	498	VAL	-	expression tag	UNP Q80TS3
A	499	LEU	-	expression tag	UNP Q80TS3
A	500	PHE	-	expression tag	UNP Q80TS3
A	501	GLN	-	expression tag	UNP Q80TS3

- Molecule 2 is a protein called Fibronectin leucine rich transmembrane protein 3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	321	Total	C	N	O	S	0	0	0
			2559	1615	453	480	11			

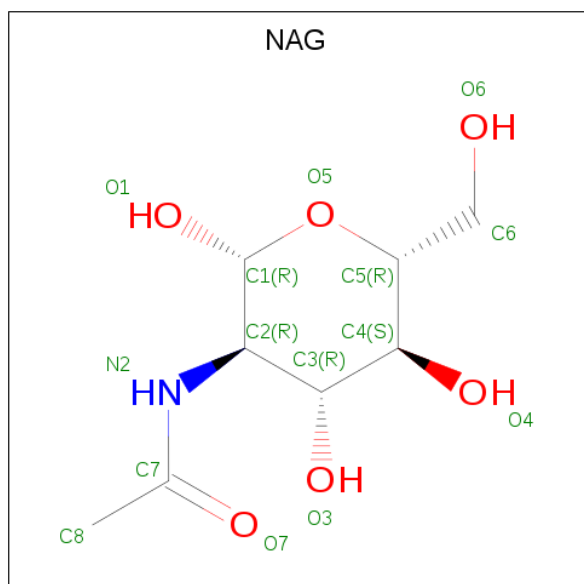
There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	23	ALA	-	expression tag	UNP Q8BGT1
B	24	PRO	-	expression tag	UNP Q8BGT1
B	25	SER	-	expression tag	UNP Q8BGT1
B	26	THR	-	expression tag	UNP Q8BGT1
B	27	ASP	-	expression tag	UNP Q8BGT1
B	28	PRO	-	expression tag	UNP Q8BGT1
B	387	LEU	-	expression tag	UNP Q8BGT1
B	388	GLU	-	expression tag	UNP Q8BGT1
B	389	VAL	-	expression tag	UNP Q8BGT1
B	390	LEU	-	expression tag	UNP Q8BGT1
B	391	PHE	-	expression tag	UNP Q8BGT1
B	392	GLN	-	expression tag	UNP Q8BGT1

- Molecule 3 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	1	Total	Ca	0	0
			1	1		

- Molecule 4 is 2-acetamido-2-deoxy-beta-D-glucopyranose (three-letter code: NAG) (formula: C₈H₁₅NO₆).

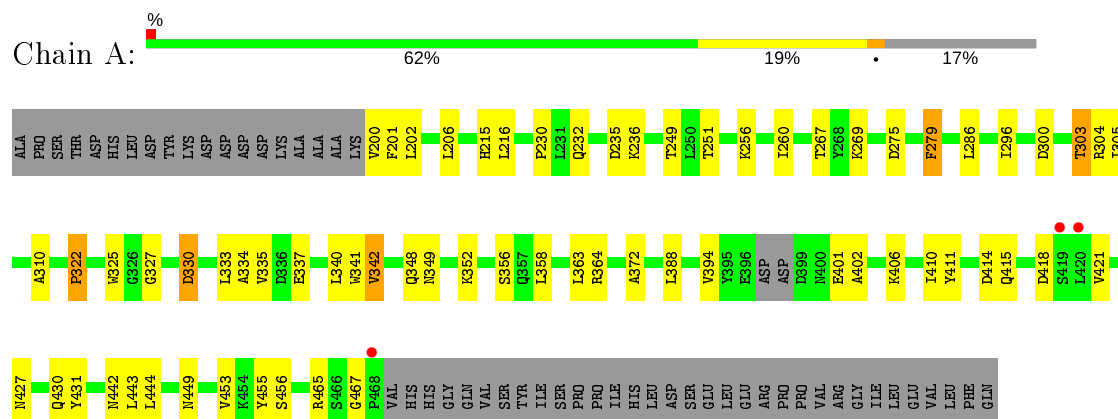


Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
4	B	1	Total	C	N	O	0	0
			14	8	1	5		

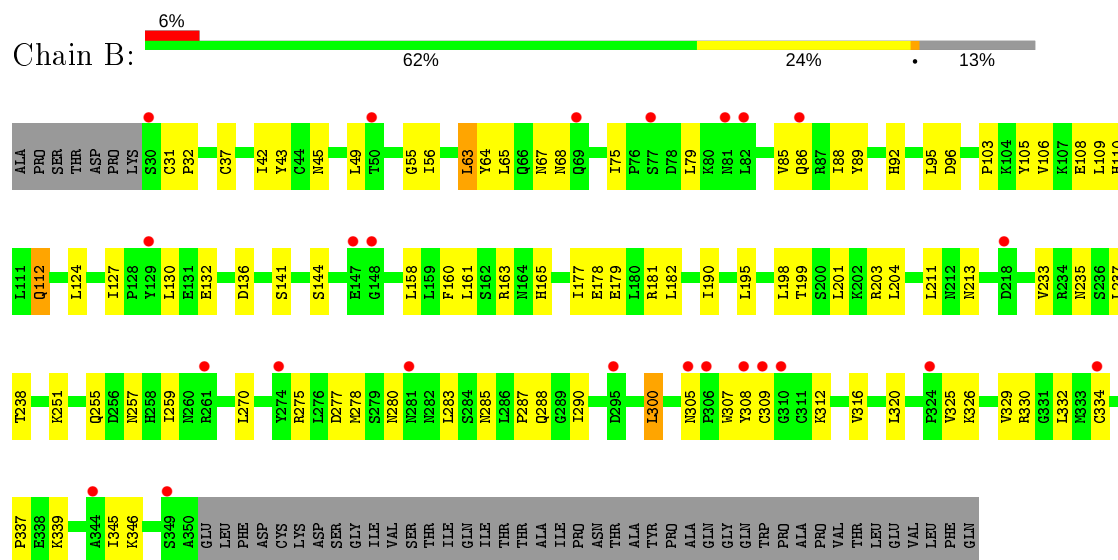
3 Residue-property plots [i](#)

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: Latrophilin-3



• Molecule 2: Fibronectin leucine rich transmembrane protein 3



4 Data and refinement statistics

Property	Value	Source
Space group	P 31 2 1	Depositor
Cell constants a, b, c, α , β , γ	121.93 Å 121.93 Å 83.97 Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	14.43 – 3.19 14.43 – 3.19	Depositor EDS
% Data completeness (in resolution range)	98.8 (14.43-3.19) 99.2 (14.43-3.19)	Depositor EDS
R_{merge}	0.06	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.39 (at 3.18 Å)	Xtriage
Refinement program	BUSTER 2.10.2	Depositor
R, R_{free}	0.257 , 0.336 0.260 , 0.340	Depositor DCC
R_{free} test set	1201 reflections (10.00%)	wwPDB-VP
Wilson B-factor (Å ²)	116.8	Xtriage
Anisotropy	0.450	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.23 , 96.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.54$, $\langle L^2 \rangle = 0.37$	Xtriage
Estimated twinning fraction	0.016 for -h,-k,l	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	4737	wwPDB-VP
Average B, all atoms (Å ²)	154.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.89% 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: CA, 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	0.44	0/2223	0.69	0/3028
2	B	0.45	0/2609	0.68	0/3548
All	All	0.44	0/4832	0.69	0/6576

There are no bond length outliers.

There are no bond angle outliers.

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	A	2163	0	2055	24	0
2	B	2559	0	2572	37	0
3	A	1	0	0	0	0
4	B	14	0	13	0	0
All	All	4737	0	4640	61	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.

All (61) 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:349:ASN:HB3	1:A:352:LYS:HB2	1.59	0.83
2:B:305:ASN:HB2	2:B:308:TYR:HE2	1.61	0.65
1:A:334:ALA:HB3	1:A:341:TRP:HB2	1.79	0.65
1:A:325:TRP:CZ3	1:A:327:GLY:HA3	2.32	0.65
2:B:190:ILE:HG13	2:B:211:LEU:HD11	1.78	0.64
1:A:232:GLN:HE22	1:A:236:LYS:HD2	1.64	0.63
2:B:211:LEU:HB2	2:B:235:ASN:HD22	1.66	0.60
1:A:340:LEU:HB3	1:A:358:LEU:O	2.03	0.59
2:B:233:VAL:HG13	2:B:255:GLN:HB2	1.87	0.57
2:B:63:LEU:HD23	2:B:65:LEU:HD11	1.88	0.56
2:B:141:SER:H	2:B:144:SER:HB3	1.72	0.54
2:B:305:ASN:HB2	2:B:308:TYR:CE2	2.43	0.54
1:A:427:ASN:HD21	1:A:430:GLN:HA	1.74	0.53
2:B:178:GLU:HA	2:B:201:LEU:HA	1.91	0.52
1:A:394:VAL:HG11	1:A:402:ALA:HA	1.92	0.52
1:A:411:TYR:CD2	1:A:418:ASP:HB3	2.44	0.52
1:A:431:TYR:HB3	1:A:449:ASN:HB2	1.90	0.52
1:A:215:HIS:HA	1:A:453:VAL:HG12	1.92	0.51
2:B:238:THR:O	2:B:259:ILE:HA	2.11	0.51
2:B:112:GLN:HG2	2:B:136:ASP:HB2	1.92	0.50
1:A:352:LYS:HD3	1:A:372:ALA:HA	1.94	0.50
2:B:211:LEU:HB2	2:B:235:ASN:ND2	2.27	0.50
1:A:256:LYS:O	1:A:260:ILE:HG12	2.11	0.50
2:B:316:VAL:HG12	2:B:320:LEU:HD23	1.92	0.50
2:B:307:TRP:N	2:B:334:CYS:HA	2.27	0.49
1:A:443:LEU:HD23	1:A:456:SER:HA	1.94	0.49
2:B:160:PHE:HD1	2:B:181:ARG:HB2	1.77	0.49
2:B:251:LYS:HG2	2:B:275:ARG:HB3	1.96	0.48
1:A:414:ASP:O	1:A:415:GLN:HB2	2.13	0.48
2:B:67:ASN:HA	2:B:92:HIS:HB3	1.94	0.48
2:B:255:GLN:NE2	2:B:277:ASP:HB3	2.30	0.47
1:A:388:LEU:O	1:A:410:ILE:HA	2.14	0.47
2:B:45:ASN:HA	2:B:68:ASN:HD21	1.80	0.47
2:B:86:GLN:HA	2:B:106:VAL:HA	1.97	0.47
2:B:300:LEU:HB3	2:B:329:VAL:HG23	1.96	0.46
2:B:103:PRO:HB2	2:B:106:VAL:HG23	1.97	0.46
2:B:89:TYR:HA	2:B:110:HIS:HB2	1.97	0.46
1:A:310:ALA:HB2	1:A:363:LEU:HB3	1.98	0.45
2:B:235:ASN:H	2:B:257:ASN:HD22	1.65	0.45
1:A:322:PRO:HA	1:A:330:ASP:HA	1.98	0.44
2:B:160:PHE:CD1	2:B:181:ARG:HB2	2.52	0.44
2:B:201:LEU:HD21	2:B:204:LEU:HD13	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:216:LEU:HD22	1:A:260:ILE:HD11	2.00	0.43
2:B:287:PRO:HG2	2:B:290:ILE:HB	1.99	0.43
2:B:195:LEU:HD23	2:B:198:LEU:HD12	1.99	0.43
2:B:161:LEU:HB2	2:B:182:LEU:HD23	2.00	0.43
2:B:63:LEU:HB3	2:B:88:ILE:HG23	2.01	0.42
1:A:200:VAL:HG23	1:A:201:PHE:H	1.85	0.42
1:A:230:PRO:HG3	1:A:335:VAL:HG11	2.01	0.42
2:B:334:CYS:HB2	2:B:337:PRO:HD2	2.01	0.42
1:A:296:ILE:HD12	1:A:333:LEU:HD21	2.02	0.41
2:B:32:PRO:HD3	2:B:55:GLY:O	2.20	0.41
2:B:179:GLU:HG2	2:B:203:ARG:HH11	1.84	0.41
2:B:213:ASN:ND2	2:B:237:LEU:HB2	2.35	0.41
2:B:37:CYS:HB3	2:B:42:ILE:HG23	2.02	0.41
1:A:444:LEU:HB2	1:A:455:TYR:HB2	2.03	0.41
2:B:109:LEU:HB2	2:B:130:LEU:HD11	2.03	0.41
2:B:43:TYR:HA	2:B:64:TYR:HB2	2.02	0.41
2:B:108:GLU:HG2	2:B:132:GLU:HB2	2.02	0.40
1:A:201:PHE:HB3	1:A:337:GLU:HG3	2.03	0.40
1:A:342:VAL:HG23	1:A:356:SER:HB2	2.04	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	263/321 (82%)	234 (89%)	25 (10%)	4 (2%)	10	44
2	B	319/370 (86%)	257 (81%)	60 (19%)	2 (1%)	25	64
All	All	582/691 (84%)	491 (84%)	85 (15%)	6 (1%)	15	54

All (6) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	B	199	THR
1	A	279	PHE
1	A	303	THR
1	A	322	PRO
1	A	467	GLY
2	B	325	VAL

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	235/283 (83%)	212 (90%)	23 (10%)	8	31
2	B	296/338 (88%)	264 (89%)	32 (11%)	6	27
All	All	531/621 (86%)	476 (90%)	55 (10%)	7	28

All (55) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	202	LEU
1	A	206	LEU
1	A	235	ASP
1	A	249	THR
1	A	251	THR
1	A	267	THR
1	A	269	LYS
1	A	275	ASP
1	A	279	PHE
1	A	286	LEU
1	A	300	ASP
1	A	303	THR
1	A	304	ARG
1	A	305	ILE
1	A	330	ASP
1	A	342	VAL
1	A	348	GLN
1	A	364	ARG

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Mol	Chain	Res	Type
1	A	401	GLU
1	A	406	LYS
1	A	421	VAL
1	A	442	ASN
1	A	465	ARG
2	B	31	CYS
2	B	49	LEU
2	B	56	ILE
2	B	63	LEU
2	B	75	ILE
2	B	79	LEU
2	B	85	VAL
2	B	95	LEU
2	B	96	ASP
2	B	105	TYR
2	B	112	GLN
2	B	124	LEU
2	B	127	ILE
2	B	158	LEU
2	B	163	ARG
2	B	165	HIS
2	B	177	ILE
2	B	270	LEU
2	B	278	MET
2	B	280	ASN
2	B	283	LEU
2	B	285	ASN
2	B	288	GLN
2	B	300	LEU
2	B	309	CYS
2	B	312	LYS
2	B	326	LYS
2	B	330	ARG
2	B	332	LEU
2	B	339	LYS
2	B	345	ILE
2	B	346	LYS

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (9) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	212	GLN

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Mol	Chain	Res	Type
1	A	232	GLN
1	A	289	ASN
2	B	110	HIS
2	B	112	GLN
2	B	235	ASN
2	B	243	ASN
2	B	255	GLN
2	B	257	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 monosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 2 ligands modelled in this entry, 1 is monoatomic - leaving 1 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	NAG	B	401	2	14,14,15	0.36	0	17,19,21	1.19	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
4	NAG	B	401	2	-	2/6/23/26	0/1/1/1

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	B	401	NAG	C1-O5-C5	3.72	117.23	112.19
4	B	401	NAG	C2-N2-C7	2.15	125.96	122.90

There are no chirality outliers.

All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	B	401	NAG	O5-C5-C6-O6
4	B	401	NAG	C3-C2-N2-C7

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

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	267/321 (83%)	-0.29	3 (1%) 80 69	103, 135, 182, 232	0
2	B	321/370 (86%)	0.21	24 (7%) 14 8	97, 163, 216, 231	0
All	All	588/691 (85%)	-0.02	27 (4%) 32 20	97, 151, 211, 232	0

All (27) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	B	81	ASN	6.2
2	B	82	LEU	5.7
2	B	309	CYS	5.0
2	B	349	SER	4.0
2	B	310	GLY	3.8
2	B	147	GLU	3.7
2	B	86	GLN	3.7
2	B	306	PRO	3.6
2	B	324	PRO	3.6
2	B	305	ASN	3.4
2	B	30	SER	3.3
1	A	468	PRO	3.0
2	B	129	TYR	2.9
2	B	69	GLN	2.9
2	B	77	SER	2.9
2	B	148	GLY	2.7
2	B	218	ASP	2.7
2	B	295	ASP	2.6
1	A	419	SER	2.6
2	B	334	CYS	2.5
2	B	344	ALA	2.3
2	B	261	ARG	2.3
2	B	274	TYR	2.3
1	A	420	LEU	2.1

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Mol	Chain	Res	Type	RSRZ
2	B	50	THR	2.1
2	B	308	TYR	2.0
2	B	281	ASN	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
4	NAG	B	401	14/15	0.92	0.24	226,233,240,243	0
3	CA	A	601	1/1	0.94	0.11	162,162,162,162	0

6.5 Other polymers [i](#)

There are no such residues in this entry.