Full wwPDB X-ray Structure Validation Report ⓘ

Jun 17, 2025 – 10:11 AM EDT

PDB ID	:	9CPY / pdb_00009cpy
Title	:	Crystal structure of SARS-CoV-2 receptor binding domain in complex with antibodies C11-0860 and CC12.3
Authors	:	Feng, Z.; Wilson, I.A.
Deposited on	:	2024-07-18
Resolution	:	3.10 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:

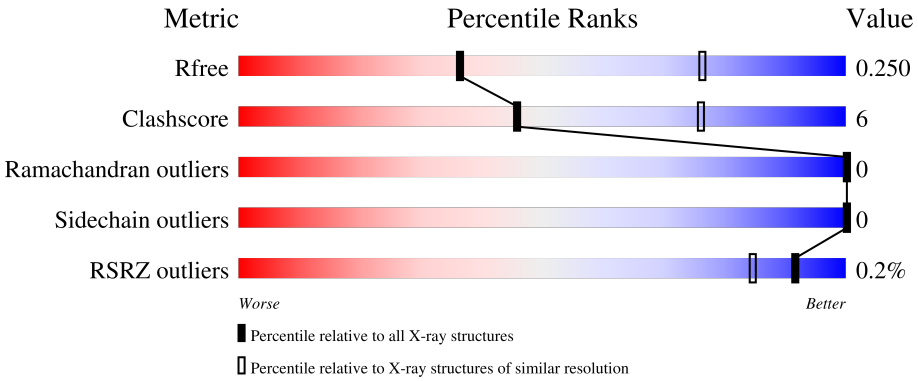
MolProbity	:	4-5-2 with Phenix2.0rc1
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0rc1
EDS	:	3.0
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
CCP4	:	9.0.006 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.44

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
X-RAY DIFFRACTION

The reported resolution of this entry is 3.10 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}	164625	1351 (3.10-3.10)
Clashscore	180529	1454 (3.10-3.10)
Ramachandran outliers	177936	1391 (3.10-3.10)
Sidechain outliers	177891	1391 (3.10-3.10)
RSRZ outliers	164620	1351 (3.10-3.10)

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 <=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	222	88% 10% .
2	L	220	82% 16% .
3	C	220	76% 21% .
4	D	214	88% 11%
5	A	205	80% 14% 6%

2 Entry composition (i)

There are 7 unique types of molecules in this entry. The entry contains 8092 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 C11-0860 Fab heavy chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	H	219	Total	C	N	O	S	0	0	0
			1631	1039	262	322	8			

- Molecule 2 is a protein called C11-0860 Fab light chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	L	217	Total	C	N	O	S	0	0	0
			1685	1056	280	344	5			

- Molecule 3 is a protein called CC12.3 Fab heavy chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	C	213	Total	C	N	O	S	0	0	0
			1600	1016	264	314	6			

- Molecule 4 is a protein called CC12.3 Fab light chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	D	213	Total	C	N	O	S	0	0	0
			1635	1021	279	331	4			

- Molecule 5 is a protein called Spike protein S1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	A	192	Total	C	N	O	S	0	0	0
			1524	979	253	284	8			

There are 7 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	531	GLY	-	expression tag	UNP P0DTC2
A	532	HIS	-	expression tag	UNP P0DTC2

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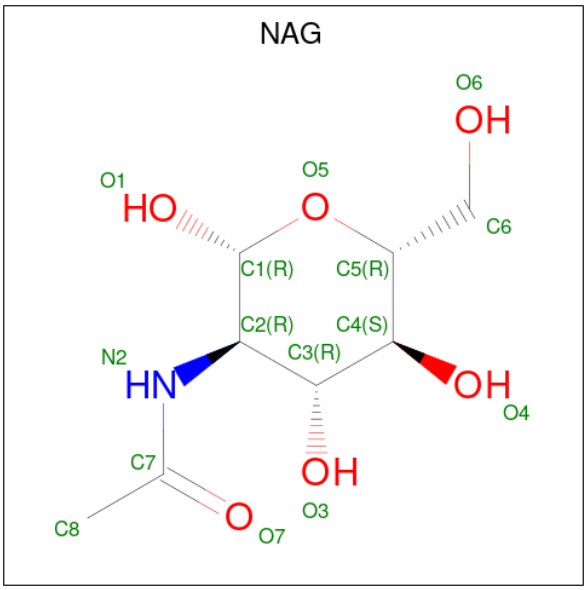
Chain	Residue	Modelled	Actual	Comment	Reference
A	533	HIS	-	expression tag	UNP P0DTC2
A	534	HIS	-	expression tag	UNP P0DTC2
A	535	HIS	-	expression tag	UNP P0DTC2
A	536	HIS	-	expression tag	UNP P0DTC2
A	537	HIS	-	expression tag	UNP P0DTC2

- Molecule 6 is 2-acetamido-2-deoxy-beta-D-glucopyranose (CCD ID: NAG) (formula: $C_8H_{15}NO_6$).



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

- Molecule 7 is water.

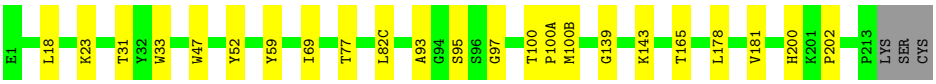
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	H	1	Total O 1 1	0	0
7	L	1	Total O 1 1	0	0
7	A	1	Total O 1 1	0	0

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.

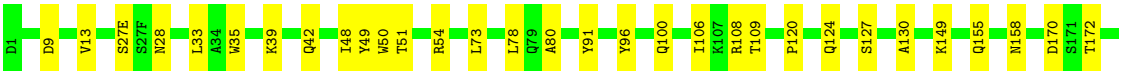
• Molecule 1: C11-0860 Fab heavy chain

Chain H:



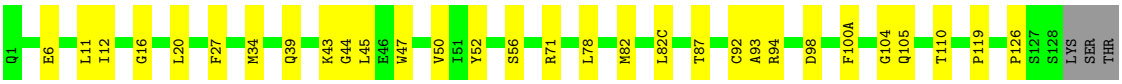
• Molecule 2: C11-0860 Fab light chain

Chain L:



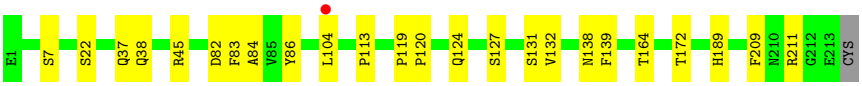
• Molecule 3: CC12.3 Fab heavy chain

Chain C:



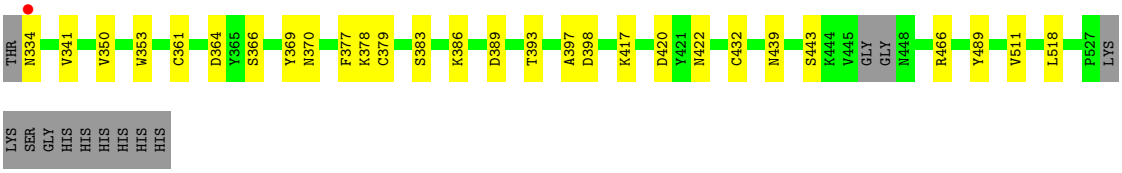
• Molecule 4: CC12.3 Fab light chain

Chain D:



• Molecule 5: Spike protein S1

Chain A:


THR N334 V341 V350 W353 C361 D364 Y365 S366 Y369 N370 F377 K378 C379 S383 K386 D389 T393 A397 D398 K417 D420 Y421 N422 C432 N439 S443 K444 V445 GLY GLY N448 R466 Y489 V511 L518 P527 LYS
LYS SER GLY HIS HIS HIS HIS HIS HIS

4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 41 21 2	Depositor
Cell constants a, b, c, α, β, γ	109.25Å 109.25Å 229.20Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	49.31 – 3.10 49.31 – 3.10	Depositor EDS
% Data completeness (in resolution range)	80.5 (49.31-3.10) 95.4 (49.31-3.10)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	2.96 (at 3.12Å)	Xtriage
Refinement program	PHENIX (1.21rc1_5127: ???)	Depositor
R, R_{free}	0.194 , 0.250 0.194 , 0.250	Depositor DCC
R_{free} test set	23980 reflections (8.05%)	wwPDB-VP
Wilson B-factor (Å^2)	59.0	Xtriage
Anisotropy	0.071	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.29 , 24.1	EDS
L-test for twinning[2]	$< \|L\| > = 0.46$, $< L^2 > = 0.29$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.90	EDS
Total number of atoms	8092	wwPDB-VP
Average B, all atoms (Å^2)	58.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.84% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

[2] Theoretical values of $< |L| >$, $< L^2 >$ 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	H	0.08	0/1674	0.25	0/2282
2	L	0.08	0/1722	0.24	0/2341
3	C	0.09	0/1639	0.24	0/2231
4	D	0.08	0/1670	0.25	0/2266
5	A	0.07	0/1567	0.25	0/2132
All	All	0.08	0/8272	0.24	0/11252

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	H	1631	0	1607	16	0
2	L	1685	0	1634	23	0
3	C	1600	0	1560	29	0
4	D	1635	0	1592	14	0
5	A	1524	0	1440	19	0
6	A	14	0	13	0	0
7	A	1	0	0	0	0
7	H	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
7	L	1	0	0	0	0
All	All	8092	0	7846	90	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 6.

All (90) 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)
3:C:82:MET:HE2	3:C:82(C):LEU:HD21	1.70	0.73
3:C:94:ARG:NH2	5:A:489:TYR:OH	2.25	0.69
4:D:189:HIS:O	4:D:211:ARG:NH1	2.27	0.66
2:L:80:ALA:HA	2:L:106:ILE:HD11	1.80	0.62
3:C:134:GLY:N	3:C:186:SER:HG	1.98	0.61
4:D:138:ASN:HA	4:D:172:THR:HB	1.82	0.60
1:H:18:LEU:HB2	1:H:82(C):LEU:HD11	1.83	0.60
3:C:126:PRO:HG3	3:C:138:LEU:HB3	1.84	0.59
4:D:120:PRO:HD3	4:D:132:VAL:HG22	1.85	0.59
2:L:186:TYR:O	2:L:192:TYR:OH	2.21	0.58
2:L:185:ASP:HA	2:L:188:LYS:HD3	1.86	0.58
2:L:27(E):SER:OG	2:L:28:ASN:OD1	2.22	0.57
2:L:108:ARG:NH1	2:L:109:THR:O	2.39	0.56
3:C:87:THR:HG23	3:C:110:THR:HA	1.88	0.55
5:A:353:TRP:O	5:A:466:ARG:NH1	2.39	0.55
5:A:364:ASP:OD1	5:A:366:SER:OG	2.23	0.55
5:A:439:ASN:O	5:A:443:SER:OG	2.21	0.55
3:C:12:ILE:HD11	3:C:16:GLY:HA3	1.90	0.53
3:C:143:LYS:NZ	4:D:131:SER:OG	2.37	0.53
3:C:153:SER:HB2	3:C:197:ASN:HB2	1.92	0.52
3:C:11:LEU:HD12	3:C:147:PRO:HD3	1.91	0.52
3:C:34:MET:HE3	3:C:78:LEU:HD22	1.91	0.52
5:A:393:THR:HG21	5:A:518:LEU:HB2	1.92	0.52
2:L:149:LYS:NZ	2:L:195:GLU:OE1	2.36	0.52
4:D:7:SER:HG	4:D:22:SER:HG	1.57	0.51
2:L:13:VAL:HB	2:L:78:LEU:HD13	1.93	0.51
3:C:92:CYS:O	3:C:104:GLY:N	2.43	0.50
3:C:93:ALA:HB1	3:C:100(A):PHE:HB3	1.94	0.50
2:L:9:ASP:OD1	2:L:100:GLN:NE2	2.44	0.50
3:C:200:HIS:CD2	3:C:202:PRO:HD2	2.47	0.50
1:H:47:TRP:CD2	2:L:96:TYR:HB2	2.48	0.49
2:L:170:ASP:OD1	2:L:170:ASP:N	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:20:LEU:HD11	3:C:82:MET:SD	2.53	0.48
3:C:39:GLN:HB2	3:C:45:LEU:HD23	1.95	0.48
5:A:389:ASP:OD1	5:A:389:ASP:N	2.44	0.48
1:H:33:TRP:N	1:H:95:SER:O	2.36	0.47
3:C:119:PRO:HB3	3:C:145:TYR:HB3	1.95	0.47
1:H:31:THR:HG22	5:A:377:PHE:CG	2.50	0.47
4:D:7:SER:OG	4:D:22:SER:OG	2.31	0.47
2:L:49:TYR:OH	5:A:386:LYS:HG2	2.15	0.47
3:C:34:MET:HB3	3:C:78:LEU:HD22	1.96	0.47
2:L:124:GLN:O	2:L:127:SER:OG	2.32	0.46
3:C:142:VAL:O	3:C:178:LEU:N	2.44	0.46
3:C:98:ASP:HB3	5:A:417:LYS:HE3	1.98	0.46
2:L:48:ILE:HG12	2:L:54:ARG:HG2	1.97	0.45
2:L:120:PRO:HG3	2:L:130:ALA:HB1	1.98	0.45
3:C:52:TYR:O	3:C:71:ARG:NH2	2.45	0.45
5:A:341:VAL:HG11	5:A:397:ALA:HB1	1.97	0.45
2:L:35:TRP:CE2	2:L:73:LEU:HB2	2.50	0.45
1:H:165:THR:HG23	1:H:178:LEU:HD21	1.99	0.45
4:D:83:PHE:CD2	4:D:104:LEU:HB3	2.51	0.45
1:H:52:TYR:CZ	5:A:378:LYS:HG2	2.52	0.45
1:H:59:TYR:HH	1:H:69:ILE:H	1.61	0.45
2:L:39:LYS:HB2	2:L:42:GLN:HG3	1.98	0.45
1:H:23:LYS:HB2	1:H:77:THR:HG22	1.98	0.44
3:C:47:TRP:HZ2	3:C:50:VAL:HG12	1.83	0.44
2:L:50:TRP:O	2:L:51:THR:OG1	2.32	0.44
1:H:97:GLY:O	1:H:100:THR:HG22	2.18	0.44
1:H:93:ALA:HB1	1:H:100(B):MET:HB3	1.99	0.43
4:D:37:GLN:OE1	4:D:45:ARG:NH1	2.50	0.43
2:L:155:GLN:HG3	2:L:158:ASN:HD21	1.83	0.43
4:D:119:PRO:HB3	4:D:209:PHE:CE2	2.53	0.43
5:A:379:CYS:HA	5:A:432:CYS:HA	2.01	0.43
1:H:100:THR:OG1	1:H:100(A):PRO:HD2	2.19	0.43
2:L:33:LEU:HD12	2:L:51:THR:HG22	2.01	0.43
4:D:82:ASP:O	4:D:86:TYR:OH	2.32	0.43
5:A:334:ASN:OD1	5:A:361:CYS:HA	2.18	0.43
1:H:200:HIS:CD2	1:H:202:PRO:HD2	2.54	0.42
1:H:100:THR:OG1	5:A:383:SER:OG	2.31	0.42
3:C:43:LYS:HG3	3:C:44:GLY:H	1.84	0.42
3:C:142:VAL:HB	3:C:178:LEU:HB3	2.01	0.42
5:A:369:TYR:HD1	5:A:370:ASN:HD22	1.66	0.42
3:C:6:GLU:H	3:C:105:GLN:HE22	1.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A:350:VAL:HG22	5:A:422:ASN:HB3	2.01	0.42
1:H:143:LYS:HB3	1:H:143:LYS:HE2	1.80	0.42
4:D:124:GLN:O	4:D:127:SER:OG	2.34	0.42
3:C:56:SER:OG	5:A:420:ASP:OD2	2.23	0.42
1:H:100(A):PRO:HD3	2:L:91:TYR:CZ	2.54	0.41
1:H:139:GLY:HA3	1:H:181:VAL:HG12	2.00	0.41
3:C:163:VAL:HG22	3:C:182:VAL:HG12	2.01	0.41
3:C:166:PHE:HA	4:D:164:THR:HG22	2.02	0.41
3:C:27:PHE:CE1	3:C:94:ARG:HD2	2.56	0.41
3:C:126:PRO:HD2	3:C:213:PRO:HA	2.01	0.41
2:L:33:LEU:HB3	2:L:51:THR:CG2	2.50	0.41
4:D:113:PRO:HB3	4:D:139:PHE:HB3	2.03	0.41
4:D:38:GLN:O	4:D:84:ALA:HB1	2.22	0.40
5:A:353:TRP:CD1	5:A:353:TRP:H	2.39	0.40
2:L:33:LEU:HB3	2:L:51:THR:HG22	2.03	0.40
2:L:170:ASP:OD2	2:L:172:THR:OG1	2.36	0.40
5:A:398:ASP:O	5:A:511:VAL:HA	2.21	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	H	217/222 (98%)	213 (98%)	4 (2%)	0	100	100
2	L	215/220 (98%)	207 (96%)	8 (4%)	0	100	100
3	C	209/220 (95%)	205 (98%)	4 (2%)	0	100	100
4	D	211/214 (99%)	203 (96%)	8 (4%)	0	100	100
5	A	188/205 (92%)	182 (97%)	6 (3%)	0	100	100
All	All	1040/1081 (96%)	1010 (97%)	30 (3%)	0	100	100

There are no Ramachandran outliers to report.

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	H	185/188 (98%)	185 (100%)	0	100	100
2	L	194/196 (99%)	194 (100%)	0	100	100
3	C	180/186 (97%)	180 (100%)	0	100	100
4	D	184/185 (100%)	184 (100%)	0	100	100
5	A	166/177 (94%)	166 (100%)	0	100	100
All	All	909/932 (98%)	909 (100%)	0	100	100

There are no protein residues with a non-rotameric sidechain to report.

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (6) such sidechains are listed below:

Mol	Chain	Res	Type
2	L	137	ASN
2	L	138	ASN
2	L	155	GLN
2	L	199	GLN
4	D	138	ASN
5	A	370	ASN

5.3.3 RNA

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

1 ligand is 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	$\#\|Z\| > 2$
6	NAG	A	601	5	14,14,15	0.78	0	17,19,21	1.04	1 (5%)

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
6	NAG	A	601	5	-	0/6/23/26	0/1/1/1

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	A	601	NAG	C2-N2-C7	2.55	126.31	122.90

There are no chirality outliers.

There are no torsion outliers.

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, 95^{th} 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	219/222 (98%)	-0.28	0	100	100	29, 56, 93, 115	0
2	L	217/220 (98%)	-0.40	0	100	100	32, 54, 75, 88	0
3	C	213/220 (96%)	-0.26	0	100	100	30, 52, 95, 113	0
4	D	213/214 (99%)	-0.13	1 (0%)	87	75	40, 63, 89, 108	0
5	A	192/205 (93%)	-0.14	1 (0%)	87	75	33, 54, 96, 120	0
All	All	1054/1081 (97%)	-0.24	2 (0%)	92	85	29, 56, 91, 120	0

All (2) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
5	A	334	ASN	2.0
4	D	104	LEU	2.0

6.2 Non-standard residues in protein, DNA, RNA chains

There are no non-standard protein/DNA/RNA residues in this entry.

6.3 Carbohydrates

There are no oligosaccharides in this entry.

6.4 Ligands

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, 95^{th} 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
6	NAG	A	601	14/15	0.82	0.12	38,73,84,93	0

6.5 Other polymers (i)

There are no such residues in this entry.