



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 12, 2026 – 12:41 PM UTC

PDB ID : 2A5T / pdb_00002a5t
Title : Crystal Structure Of The NR1/NR2A ligand-binding cores complex
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Deposited on : 2005-06-30
Resolution : 2.00 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 Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

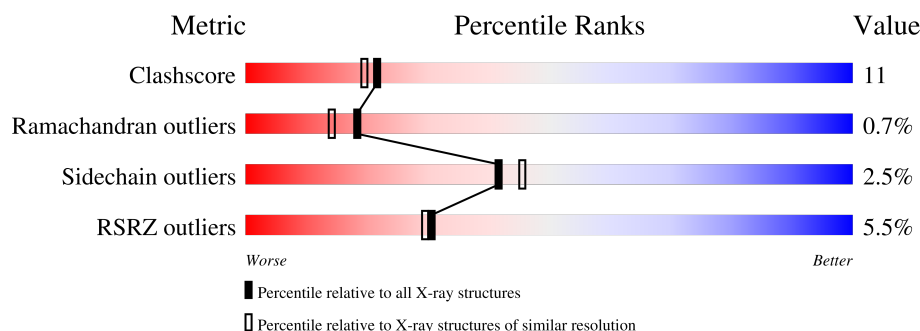
1 Overall quality at a glance

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))
Clashscore	190562	11152 (2.00-2.00)
Ramachandran outliers	187476	11031 (2.00-2.00)
Sidechain outliers	187428	11029 (2.00-2.00)
RSRZ outliers	180081	10067 (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 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	292	
2	B	284	

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 4528 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 N-methyl-D-aspartate receptor NMDAR1-4a subunit.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	271	Total	C	N	O	S	0	0	0
			2075	1327	348	385	15			

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1	GLY	-	SEE REMARK 999	UNP P35439
A	129	ASN	TYR	conflict	UNP P35439
A	153	GLY	-	SEE REMARK 999	UNP P35439
A	154	THR	-	SEE REMARK 999	UNP P35439

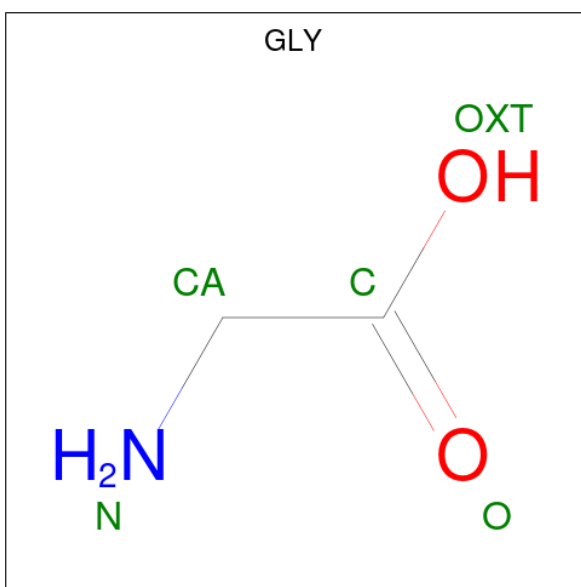
- Molecule 2 is a protein called N-methyl-D-aspartate receptor NMDAR2A subunit.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	276	Total	C	N	O	S	0	0	0
			2096	1334	356	392	14			

There are 3 discrepancies between the modelled and reference sequences:

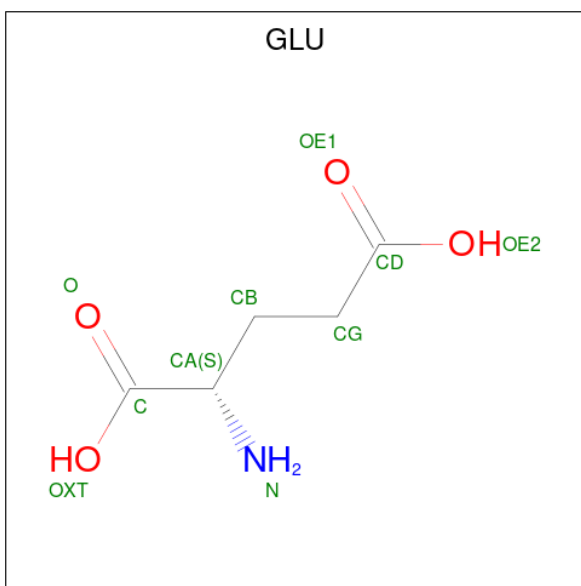
Chain	Residue	Modelled	Actual	Comment	Reference
B	3	GLY	-	SEE REMARK 999	UNP Q00959
B	143	GLY	-	SEE REMARK 999	UNP Q00959
B	144	THR	-	SEE REMARK 999	UNP Q00959

- Molecule 3 is GLYCINE (CCD ID: GLY) (formula: C₂H₅NO₂).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	A	1	Total	C	N	O	0	0
			5	2	1	2		

- Molecule 4 is GLUTAMIC ACID (CCD ID: GLU) (formula: C₅H₉NO₄).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
4	B	1	Total	C	N	O	0	0
			10	5	1	4		

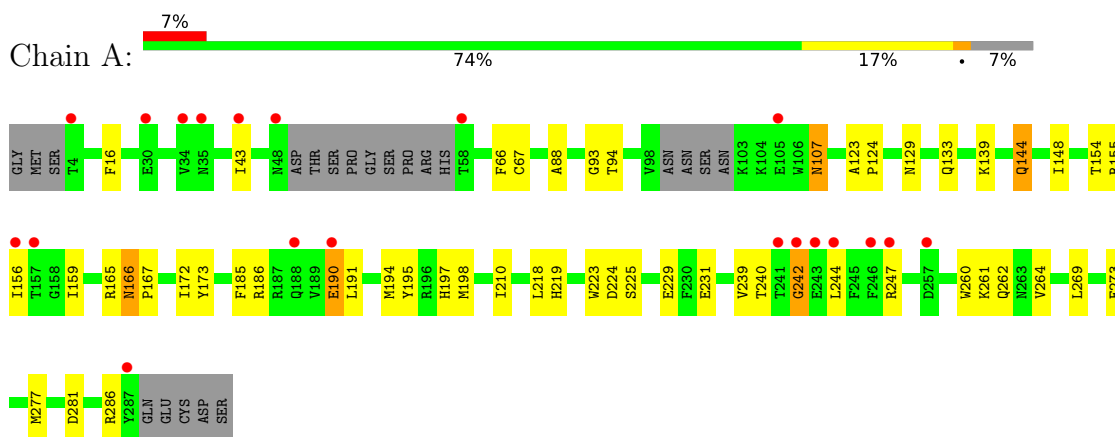
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	147	Total 147	O 147	0	0
5	B	195	Total 195	O 195	0	0

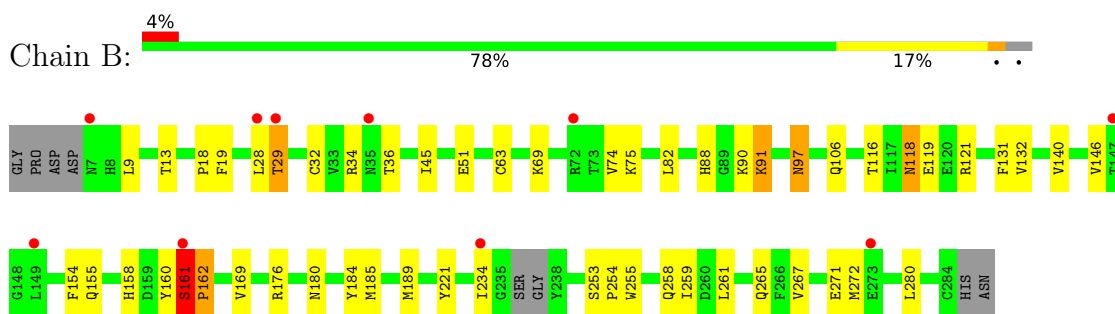
3 Residue-property plots [i](#)

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: N-methyl-D-aspartate receptor NMDAR1-4a subunit



- Molecule 2: N-methyl-D-aspartate receptor NMDAR2A subunit



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	54.64Å 89.99Å 126.12Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	19.95 – 2.00 19.95 – 2.00	Depositor EDS
% Data completeness (in resolution range)	93.2 (19.95-2.00) 93.2 (19.95-2.00)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.40 (at 1.88Å)	Xtriage
Refinement program	CNS 1.1	Depositor
R, R_{free}	0.213 , 0.253 0.222 , (Not available)	Depositor DCC
R_{free} test set	No test flags present.	wwPDB-VP
Wilson B-factor (Å ²)	27.3	Xtriage
Anisotropy	0.034	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 47.9	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	4528	wwPDB-VP
Average B, all atoms (Å ²)	29.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.57% 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

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	0.37	0/2120	0.87	6/2876 (0.2%)
2	B	0.39	0/2137	0.97	11/2903 (0.4%)
All	All	0.38	0/4257	0.92	17/5779 (0.3%)

There are no bond length outliers.

All (17) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	161	SER	CA-C-N	-10.73	109.33	120.38
2	B	161	SER	C-N-CA	-10.73	109.33	120.38
2	B	169	VAL	N-CA-C	-7.58	99.28	107.77
2	B	189	MET	N-CA-C	7.17	119.09	111.28
2	B	280	LEU	N-CA-C	6.92	121.77	113.12
1	A	166	ASN	CA-C-N	6.80	128.35	119.84
1	A	166	ASN	C-N-CA	6.80	128.35	119.84
2	B	106	GLN	N-CA-C	6.65	120.71	111.74
1	A	261	LYS	N-CA-C	6.32	118.97	111.33
1	A	139	LYS	N-CA-C	-6.28	101.42	110.08
2	B	162	PRO	N-CA-C	-6.09	103.27	110.70
2	B	119	GLU	N-CA-C	6.09	117.58	111.07
2	B	9	LEU	N-CA-C	5.82	118.96	109.59
2	B	34	ARG	CB-CA-C	-5.63	110.10	116.63
1	A	88	ALA	N-CA-C	5.25	117.41	111.11
1	A	273	GLU	N-CA-C	5.06	117.69	111.82
2	B	75	LYS	N-CA-C	5.06	116.83	110.91

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	2075	0	1954	45	0
2	B	2096	0	2006	43	0
3	A	5	0	2	0	0
4	B	10	0	5	1	0
5	A	147	0	0	3	0
5	B	195	0	0	3	0
All	All	4528	0	3967	88	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 11.

All (88) 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)
2:B:154:PHE:HB3	2:B:185:MET:HE2	1.54	0.89
1:A:172:ILE:H	1:A:219:HIS:HD2	1.23	0.82
2:B:97:ASN:C	2:B:97:ASN:HD22	1.88	0.81
1:A:94:THR:H	1:A:107:ASN:ND2	1.83	0.76
1:A:154:THR:HG22	1:A:156:ILE:HD13	1.69	0.74
1:A:94:THR:H	1:A:107:ASN:HD21	1.35	0.73
2:B:118:ASN:C	2:B:118:ASN:HD22	2.01	0.69
1:A:107:ASN:HD22	1:A:107:ASN:C	1.99	0.68
1:A:123:ALA:HB1	1:A:124:PRO:HD2	1.78	0.65
1:A:225:SER:HB3	1:A:244:LEU:HD21	1.79	0.64
2:B:161:SER:CB	2:B:162:PRO:HD3	2.27	0.64
2:B:267:VAL:HG22	2:B:272:MET:HG3	1.80	0.64
1:A:190:GLU:H	1:A:190:GLU:CD	2.06	0.63
1:A:165:ARG:HD3	1:A:194:MET:HE2	1.82	0.62
1:A:173:TYR:H	1:A:197:HIS:HE1	1.48	0.61
2:B:140:VAL:HG21	2:B:234:ILE:HD11	1.81	0.61
2:B:176:ARG:NH1	2:B:180:ASN:ND2	2.49	0.59
1:A:155:ARG:O	1:A:156:ILE:HD12	2.01	0.59
1:A:186:ARG:HD3	1:A:195:TYR:OH	2.02	0.59
1:A:185:PHE:CD2	1:A:198:MET:HE1	2.38	0.59
1:A:165:ARG:C	1:A:167:PRO:HD3	2.28	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:131:PHE:CD1	2:B:132:VAL:HG23	2.38	0.59
2:B:176:ARG:CZ	2:B:180:ASN:HD21	2.16	0.58
1:A:210:ILE:HD13	1:A:231:GLU:HG3	1.85	0.57
2:B:161:SER:CB	2:B:162:PRO:CD	2.83	0.56
1:A:43:ILE:HG12	5:A:1059:HOH:O	2.06	0.56
2:B:69:LYS:NZ	2:B:271:GLU:HB3	2.23	0.54
1:A:185:PHE:CG	1:A:198:MET:HE1	2.42	0.54
1:A:242:GLY:HA2	5:A:1043:HOH:O	2.07	0.54
1:A:93:GLY:HA2	1:A:107:ASN:ND2	2.23	0.54
1:A:239:VAL:HG12	1:A:240:THR:N	2.24	0.52
1:A:172:ILE:N	1:A:219:HIS:HD2	2.02	0.52
1:A:155:ARG:C	1:A:156:ILE:HD12	2.35	0.52
1:A:281:ASP:HB2	5:A:1047:HOH:O	2.10	0.52
1:A:129:ASN:ND2	1:A:133:GLN:HE21	2.08	0.51
1:A:94:THR:N	1:A:107:ASN:HD21	2.05	0.51
2:B:116:THR:HG1	4:B:2002:GLU:N	2.08	0.51
2:B:160:TYR:O	2:B:161:SER:O	2.29	0.50
2:B:258:GLN:HG3	5:B:2065:HOH:O	2.12	0.49
2:B:69:LYS:HZ3	2:B:271:GLU:HB3	1.78	0.49
2:B:18:PRO:HD3	2:B:221:TYR:CD2	2.48	0.48
2:B:154:PHE:CB	2:B:185:MET:HE2	2.34	0.48
2:B:176:ARG:HH12	2:B:180:ASN:CG	2.20	0.48
1:A:260:TRP:O	1:A:264:VAL:HG23	2.14	0.48
2:B:118:ASN:ND2	2:B:121:ARG:H	2.12	0.47
1:A:225:SER:O	1:A:229:GLU:HG2	2.14	0.47
2:B:28:LEU:O	2:B:29:THR:CB	2.63	0.47
1:A:194:MET:C	1:A:198:MET:HE2	2.40	0.47
1:A:93:GLY:HA2	1:A:107:ASN:HD22	1.78	0.47
2:B:45:ILE:HD12	2:B:51:GLU:CD	2.40	0.46
1:A:225:SER:CB	1:A:244:LEU:HD21	2.45	0.46
1:A:167:PRO:HB3	1:A:197:HIS:CD2	2.51	0.46
2:B:146:VAL:HG23	2:B:234:ILE:HG13	1.98	0.46
2:B:97:ASN:C	2:B:97:ASN:ND2	2.60	0.45
2:B:261:LEU:O	2:B:265:GLN:HB2	2.16	0.45
2:B:154:PHE:HB3	2:B:185:MET:CE	2.36	0.45
1:A:129:ASN:HD21	1:A:133:GLN:HE21	1.65	0.45
2:B:74:VAL:O	2:B:74:VAL:HG12	2.17	0.44
2:B:45:ILE:HD12	2:B:51:GLU:CG	2.47	0.44
1:A:144:GLN:OE1	1:A:224:ASP:HB3	2.18	0.44
2:B:155:GLN:HE21	2:B:185:MET:CE	2.30	0.44
1:A:223:TRP:CG	1:A:224:ASP:H	2.36	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:158:HIS:HD2	2:B:184:TYR:OH	2.00	0.43
2:B:253:SER:HA	2:B:254:PRO:HD3	1.80	0.43
2:B:146:VAL:CG2	2:B:234:ILE:HG13	2.48	0.43
1:A:225:SER:O	1:A:229:GLU:CG	2.66	0.43
1:A:154:THR:CG2	1:A:156:ILE:HD13	2.46	0.43
1:A:191:LEU:HD22	1:A:194:MET:HE3	2.00	0.43
1:A:16:PHE:HA	1:A:66:PHE:HB3	2.00	0.43
1:A:148:ILE:O	1:A:240:THR:HA	2.19	0.42
2:B:13:THR:HG23	2:B:82:LEU:HD23	2.01	0.42
2:B:140:VAL:CG2	2:B:234:ILE:HD11	2.48	0.42
2:B:118:ASN:C	2:B:118:ASN:ND2	2.71	0.42
1:A:159:ILE:HG12	1:A:159:ILE:O	2.19	0.42
2:B:176:ARG:NH1	2:B:180:ASN:HD21	2.16	0.42
2:B:32:CYS:HB3	2:B:36:THR:OG1	2.19	0.42
2:B:88:HIS:HD2	5:B:2137:HOH:O	2.02	0.42
2:B:90:LYS:H	2:B:97:ASN:ND2	2.19	0.41
1:A:107:ASN:ND2	1:A:107:ASN:C	2.71	0.41
2:B:255:TRP:O	2:B:259:ILE:HG12	2.20	0.41
1:A:173:TYR:H	1:A:197:HIS:CE1	2.33	0.41
1:A:166:ASN:N	1:A:167:PRO:HD3	2.34	0.41
2:B:267:VAL:HA	2:B:272:MET:HG2	2.02	0.41
1:A:172:ILE:H	1:A:219:HIS:CD2	2.16	0.40
2:B:176:ARG:NH1	2:B:180:ASN:CG	2.79	0.40
2:B:19:PHE:HB3	2:B:63:CYS:SG	2.61	0.40
1:A:16:PHE:HB3	1:A:67:CYS:SG	2.62	0.40
2:B:91:LYS:HE3	5:B:2183:HOH:O	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	A	265/292 (91%)	254 (96%)	9 (3%)	2 (1%)	16	11
2	B	272/284 (96%)	259 (95%)	11 (4%)	2 (1%)	18	14
All	All	537/576 (93%)	513 (96%)	20 (4%)	4 (1%)	18	14

All (4) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	B	161	SER
1	A	242	GLY
2	B	29	THR
1	A	286	ARG

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	213/260 (82%)	205 (96%)	8 (4%)	29	29
2	B	219/248 (88%)	216 (99%)	3 (1%)	59	66
All	All	432/508 (85%)	421 (98%)	11 (2%)	42	45

All (11) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	107	ASN
1	A	144	GLN
1	A	190	GLU
1	A	218	LEU
1	A	247	ARG
1	A	262	GLN
1	A	269	LEU
1	A	277	MET
2	B	91	LYS
2	B	97	ASN
2	B	118	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (16) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	107	ASN
1	A	129	ASN
1	A	133	GLN
1	A	160	ASN
1	A	188	GLN
1	A	197	HIS
1	A	219	HIS
2	B	8	HIS
2	B	88	HIS
2	B	97	ASN
2	B	118	ASN
2	B	155	GLN
2	B	158	HIS
2	B	180	ASN
2	B	181	ASN
2	B	265	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 oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

2 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	$\# Z > 2$
4	GLU	B	2002	-	8,9,9	1.17	0	8,11,11	0.80	0
3	GLY	A	1001	-	4,4,4	1.95	2 (50%)	3,4,4	1.75	1 (33%)

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	GLU	B	2002	-	-	5/9/9/9	-
3	GLY	A	1001	-	-	0/2/2/2	-

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	1001	GLY	O-C	2.83	1.31	1.22
3	A	1001	GLY	OXT-C	-2.64	1.22	1.30

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	1001	GLY	OXT-C-CA	2.44	123.07	113.38

There are no chirality outliers.

All (5) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	B	2002	GLU	O-C-CA-N
4	B	2002	GLU	OE1-CD-CG-CB
4	B	2002	GLU	OE2-CD-CG-CB
4	B	2002	GLU	CA-CB-CG-CD
4	B	2002	GLU	C-CA-CB-CG

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	B	2002	GLU	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	271/292 (92%)	0.37	20 (7%) 20 19	16, 30, 46, 58	0
2	B	276/284 (97%)	0.12	10 (3%) 46 45	14, 25, 42, 49	0
All	All	547/576 (94%)	0.25	30 (5%) 30 29	14, 27, 45, 58	0

All (30) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	B	161	SER	5.6
1	A	48	ASN	3.6
2	B	29	THR	3.5
1	A	247	ARG	3.2
1	A	58	THR	3.0
1	A	244	LEU	3.0
1	A	241	THR	2.9
2	B	28	LEU	2.8
2	B	7	ASN	2.7
1	A	34	VAL	2.7
1	A	287	TYR	2.7
1	A	156	ILE	2.6
2	B	234	ILE	2.6
1	A	35	ASN	2.6
1	A	246	PHE	2.5
1	A	105	GLU	2.5
2	B	273	GLU	2.5
2	B	72	ARG	2.4
1	A	243	GLU	2.3
1	A	4	THR	2.3
1	A	242	GLY	2.2
1	A	30	GLU	2.2
2	B	149	LEU	2.2
1	A	157	THR	2.2

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Mol	Chain	Res	Type	RSRZ
1	A	257	ASP	2.2
2	B	147	THR	2.2
1	A	43	ILE	2.1
1	A	188	GLN	2.1
1	A	190	GLU	2.1
2	B	35	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 oligosaccharides 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
3	GLY	A	1001	5/5	0.96	0.09	19,20,22,24	0
4	GLU	B	2002	10/10	0.97	0.04	13,15,17,18	0

6.5 Other polymers [i](#)

There are no such residues in this entry.