



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 8, 2026 – 06:33 AM UTC

PDB ID : 4F1Y / pdb_00004f1y
Title : CNQX bound to the ligand binding domain of GluA3
Authors : Ahmed, A.H.; Oswald, R.E.
Deposited on : 2012-05-07
Resolution : 1.79 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

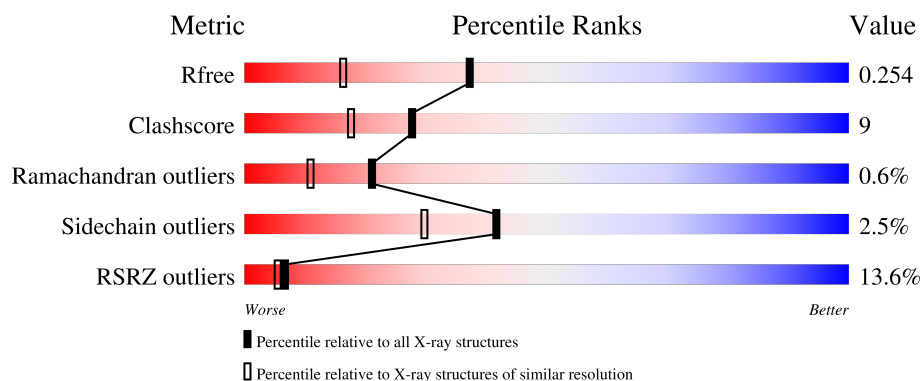
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.79 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}	180053	7662 (1.80-1.80)
Clashscore	190562	8479 (1.80-1.80)
Ramachandran outliers	187476	8391 (1.80-1.80)
Sidechain outliers	187428	8390 (1.80-1.80)
RSRZ outliers	180081	7663 (1.80-1.80)

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	258	15% 77% 21%
1	C	258	12% 87% 13%

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 4587 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.

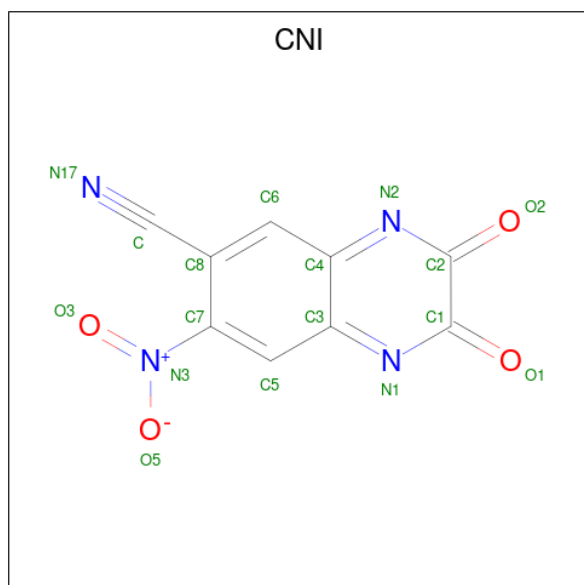
- Molecule 1 is a protein called Glutamate receptor 3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	258	Total	C	N	O	S	0	1	0
			2028	1296	339	382	11			
1	C	258	Total	C	N	O	S	0	0	0
			2031	1296	340	384	11			

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	118	GLY	-	linker	UNP P19492
A	119	THR	-	linker	UNP P19492
C	118	GLY	-	linker	UNP P19492
C	119	THR	-	linker	UNP P19492

- Molecule 2 is 7-nitro-2,3-dioxo-2,3-dihydroquinoxaline-6-carbonitrile (CCD ID: CNI) (formula: C₉H₂N₄O₄).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	C	N	O	0	0
			17	9	4	4		
2	C	1	Total	C	N	O	0	0
			17	9	4	4		

- Molecule 3 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	2	Total	Zn	0	0
			2	2		

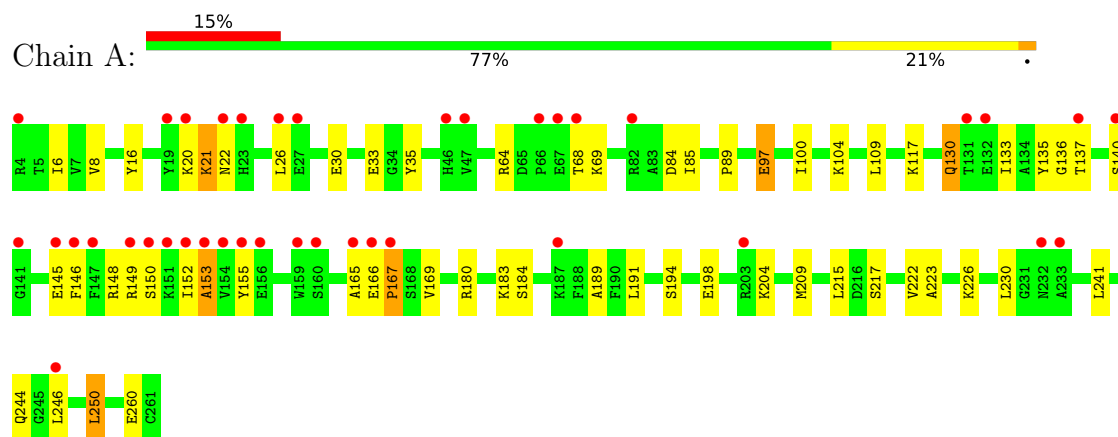
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	236	Total	O	0	0
			236	236		
4	C	256	Total	O	0	0
			256	256		

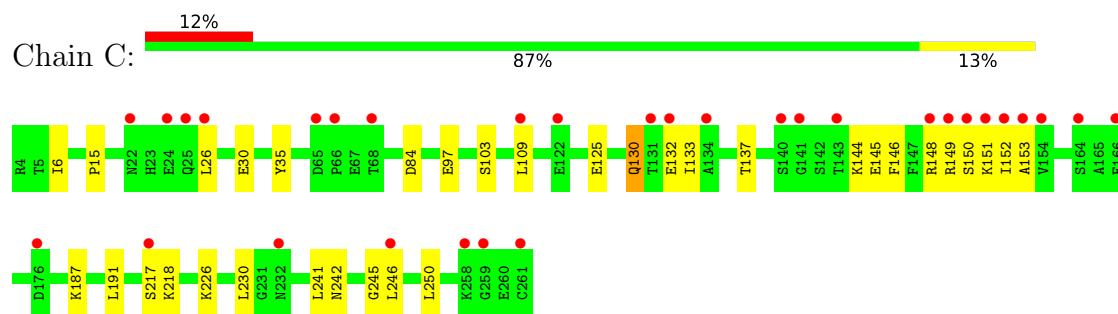
3 Residue-property plots

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: Glutamate receptor 3



• Molecule 1: Glutamate receptor 3



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	50.18Å 96.85Å 62.23Å 90.00° 107.15° 90.00°	Depositor
Resolution (Å)	26.78 – 1.79 26.78 – 1.79	Depositor EDS
% Data completeness (in resolution range)	89.0 (26.78-1.79) 88.9 (26.78-1.79)	Depositor EDS
R_{merge}	0.09	Depositor
R_{sym}	0.09	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.31 (at 1.79Å)	Xtriage
Refinement program	PHENIX (phenix.refine)	Depositor
R, R_{free}	0.206 , 0.251 0.214 , 0.254	Depositor DCC
R_{free} test set	2000 reflections (3.95%)	wwPDB-VP
Wilson B-factor (Å ²)	20.3	Xtriage
Anisotropy	0.883	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.38 , 43.7	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	4587	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 5.43% 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: CNI, ZN

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	0.46	1/2069 (0.0%)	0.77	1/2785 (0.0%)
1	C	0.51	2/2068 (0.1%)	0.73	0/2781
All	All	0.48	3/4137 (0.1%)	0.75	1/5566 (0.0%)

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	68	THR	C-N	9.24	1.46	1.33
1	C	245	GLY	C-N	-8.41	1.20	1.33
1	C	242	ASN	C-N	-8.11	1.23	1.34

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	68	THR	O-C-N	-6.12	114.43	122.39

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	2028	0	2054	45	0
1	C	2031	0	2059	30	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	A	17	0	2	0	0
2	C	17	0	2	0	0
3	A	2	0	0	0	0
4	A	236	0	0	9	0
4	C	256	0	0	5	0
All	All	4587	0	4117	74	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 9.

All (74) 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:C:130:GLN:HE22	1:C:133:ILE:H	1.02	1.01
1:A:130:GLN:HE22	1:A:133:ILE:H	1.06	0.98
1:A:241:LEU:HD22	1:A:246:LEU:HD12	1.52	0.91
1:A:137:THR:HG22	1:A:191:LEU:HB2	1.57	0.86
1:C:26:LEU:HD23	1:C:30:GLU:HB3	1.65	0.78
1:A:146:PHE:O	1:A:150:SER:HB2	1.83	0.78
1:A:130:GLN:NE2	1:A:133:ILE:H	1.82	0.77
1:C:145:GLU:HG2	1:C:148:ARG:NH1	2.07	0.70
1:C:148:ARG:HD2	1:C:149:ARG:NE	2.07	0.69
1:A:183:LYS:HG2	4:A:731:HOH:O	1.93	0.67
1:C:130:GLN:NE2	1:C:133:ILE:H	1.85	0.66
1:C:146:PHE:O	1:C:150:SER:HB2	1.95	0.66
1:A:241:LEU:CD2	1:A:246:LEU:HD12	2.24	0.66
1:A:130:GLN:HE22	1:A:133:ILE:N	1.88	0.64
1:C:137:THR:HG22	1:C:191:LEU:HB2	1.80	0.63
1:A:117:LYS:HG2	1:A:209:MET:HE3	1.79	0.63
1:C:148:ARG:HD2	1:C:149:ARG:HE	1.63	0.63
1:A:26:LEU:HD23	1:A:30:GLU:HB3	1.81	0.62
1:A:85:ILE:HD11	1:A:222:VAL:CG1	2.31	0.61
1:C:6:ILE:HG23	1:C:84:ASP:HB2	1.83	0.59
1:A:85:ILE:HD11	1:A:222:VAL:HG11	1.86	0.57
1:A:6:ILE:HG23	1:A:84:ASP:HB2	1.86	0.57
1:A:165:ALA:O	1:A:167:PRO:O	2.23	0.55
1:C:125:GLU:HG2	4:C:593:HOH:O	2.07	0.55
1:C:150:SER:OG	1:C:152:ILE:HD12	2.06	0.54
1:C:226:LYS:NZ	4:C:721:HOH:O	2.41	0.54
1:C:148:ARG:HB3	1:C:149:ARG:HD2	1.91	0.53
1:C:144:LYS:HG2	1:C:148:ARG:HH21	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:97:GLU:HG3	4:C:721:HOH:O	2.10	0.52
1:A:21:LYS:HG2	1:A:22:ASN:N	2.26	0.51
1:A:152:ILE:HD13	4:C:633:HOH:O	2.09	0.50
1:C:132:GLU:HG2	1:C:187:LYS:NZ	2.26	0.50
1:C:217:SER:O	1:C:218:LYS:HD3	2.11	0.50
4:A:529:HOH:O	1:C:152:ILE:HD13	2.10	0.50
1:A:246:LEU:HD23	4:A:573:HOH:O	2.12	0.50
1:A:204:LYS:HG3	1:A:260:GLU:OE1	2.12	0.50
1:A:97:GLU:HG3	4:A:610:HOH:O	2.12	0.49
1:C:241:LEU:HD22	1:C:246:LEU:HD23	1.94	0.49
1:A:244:GLN:HG3	4:A:695:HOH:O	2.13	0.48
1:A:150:SER:OG	1:A:152:ILE:HD12	2.13	0.48
1:A:16:TYR:CG	1:A:89:PRO:HG3	2.48	0.48
1:C:151:LYS:C	1:C:152:ILE:HG13	2.39	0.47
1:A:155:TYR:OH	1:A:215:LEU:HD22	2.14	0.47
1:A:135:TYR:HA	1:A:189:ALA:O	2.14	0.47
1:A:20:LYS:HE2	1:A:33:GLU:HB3	1.96	0.47
1:A:148:ARG:HD2	1:A:149:ARG:HE	1.80	0.47
1:A:140:SER:HB2	4:A:654:HOH:O	2.15	0.46
1:C:35:TYR:CE2	1:C:250:LEU:HB3	2.51	0.45
1:C:130:GLN:HE22	1:C:133:ILE:N	1.88	0.45
1:C:146:PHE:O	1:C:150:SER:CB	2.63	0.45
1:A:165:ALA:C	1:A:167:PRO:O	2.59	0.45
1:A:145:GLU:HG3	4:A:543:HOH:O	2.17	0.45
1:A:6:ILE:HG23	1:A:84:ASP:CB	2.46	0.44
1:A:117:LYS:HE2	1:A:209:MET:HE3	2.00	0.44
1:A:166:GLU:HA	1:A:167:PRO:HA	1.86	0.44
1:A:35:TYR:CE2	1:A:250:LEU:HB3	2.53	0.44
1:A:8:VAL:HG22	1:A:85:ILE:CG2	2.48	0.43
1:A:136:GLY:HA3	1:A:169:VAL:O	2.17	0.43
1:A:100:ILE:HD12	1:A:223:ALA:HB1	2.01	0.43
1:A:104:LYS:HE3	1:C:103:SER:O	2.19	0.42
1:A:64[B]:ARG:HH11	1:A:69:LYS:HG2	1.83	0.42
1:A:194:SER:O	1:A:198:GLU:HG3	2.20	0.42
1:A:140:SER:N	4:A:599:HOH:O	2.51	0.42
1:A:146:PHE:O	1:A:150:SER:CB	2.60	0.42
1:C:149:ARG:HD2	1:C:149:ARG:N	2.34	0.42
1:C:152:ILE:HA	4:C:512:HOH:O	2.19	0.42
1:C:26:LEU:HD23	1:C:30:GLU:CB	2.44	0.42
1:A:226:LYS:NZ	4:A:610:HOH:O	2.52	0.42
1:A:152:ILE:O	1:A:153:ALA:C	2.64	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:151:LYS:HA	1:C:151:LYS:HD3	1.96	0.41
1:A:180:ARG:O	1:A:184:SER:HB3	2.21	0.41
1:C:6:ILE:HG23	1:C:84:ASP:CB	2.50	0.40
1:A:152:ILE:O	1:A:153:ALA:O	2.39	0.40
1:C:35:TYR:CD2	1:C:250:LEU:HB3	2.56	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	257/258 (100%)	247 (96%)	8 (3%)	2 (1%)	16	6
1	C	256/258 (99%)	247 (96%)	8 (3%)	1 (0%)	30	19
All	All	513/516 (99%)	494 (96%)	16 (3%)	3 (1%)	21	11

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	153	ALA
1	C	153	ALA
1	A	167	PRO

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	216/218 (99%)	209 (97%)	7 (3%)	34	22
1	C	217/218 (100%)	213 (98%)	4 (2%)	51	43
All	All	433/436 (99%)	422 (98%)	11 (2%)	42	30

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

Mol	Chain	Res	Type
1	A	21	LYS
1	A	97	GLU
1	A	109	LEU
1	A	130	GLN
1	A	217	SER
1	A	230	LEU
1	A	250	LEU
1	C	15	PRO
1	C	109	LEU
1	C	130	GLN
1	C	230	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	130	GLN
1	C	130	GLN

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 ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry

Of 4 ligands modelled in this entry, 2 are monoatomic - leaving 2 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
2	CNI	C	401	-	17,18,18	2.98	2 (11%)	11,26,26	1.40	2 (18%)
2	CNI	A	401	-	17,18,18	2.97	2 (11%)	11,26,26	1.39	2 (18%)

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
2	CNI	C	401	-	-	3/4/18/18	0/2/2/2
2	CNI	A	401	-	-	3/4/18/18	0/2/2/2

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	401	CNI	C8-C	-11.00	1.28	1.44
2	C	401	CNI	C8-C	-11.00	1.28	1.44
2	C	401	CNI	C7-N3	-2.56	1.41	1.45
2	A	401	CNI	C7-N3	-2.51	1.41	1.45

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	401	CNI	C3-N1-C1	2.97	120.84	115.76
2	A	401	CNI	C3-N1-C1	2.94	120.79	115.76
2	A	401	CNI	C2-N2-C4	2.89	120.69	115.76
2	C	401	CNI	C2-N2-C4	2.86	120.65	115.76

There are no chirality outliers.

All (6) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	401	CNI	N17-C-C8-C7
2	A	401	CNI	C5-C7-N3-O3
2	A	401	CNI	C8-C7-N3-O3
2	C	401	CNI	N17-C-C8-C7
2	C	401	CNI	C5-C7-N3-O3
2	C	401	CNI	C8-C7-N3-O3

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	258/258 (100%)	1.12	39 (15%) 5 4	18, 27, 48, 60	1 (0%)
1	C	258/258 (100%)	0.91	31 (12%) 9 7	18, 24, 41, 57	0
All	All	516/516 (100%)	1.02	70 (13%) 7 5	18, 26, 46, 60	1 (0%)

All (70) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	152	ILE	10.6
1	A	141	GLY	7.6
1	A	152	ILE	7.6
1	A	153	ALA	7.4
1	A	167	PRO	6.0
1	A	232	ASN	5.8
1	A	66	PRO	5.6
1	C	151	LYS	5.5
1	C	140	SER	5.3
1	C	150	SER	4.8
1	C	149	ARG	4.6
1	A	233	ALA	4.2
1	C	153	ALA	4.2
1	C	68	THR	4.0
1	A	140	SER	3.7
1	A	246	LEU	3.7
1	A	149	ARG	3.6
1	C	25	GLN	3.5
1	C	148	ARG	3.4
1	C	232	ASN	3.4
1	C	22	ASN	3.3
1	C	141	GLY	3.3
1	A	26	LEU	3.2
1	A	154	VAL	3.2

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Mol	Chain	Res	Type	RSRZ
1	A	46	HIS	3.2
1	A	160	SER	3.1
1	A	166	GLU	3.1
1	A	159	TRP	3.0
1	C	26	LEU	3.0
1	A	151	LYS	3.0
1	A	131	THR	3.0
1	C	132	GLU	2.8
1	A	146	PHE	2.7
1	C	65	ASP	2.7
1	C	24	GLU	2.7
1	C	109	LEU	2.7
1	A	132	GLU	2.6
1	A	155	TYR	2.6
1	A	82	ARG	2.5
1	A	68	THR	2.5
1	A	22	ASN	2.5
1	A	67	GLU	2.5
1	C	131	THR	2.5
1	C	176	ASP	2.4
1	C	166	GLU	2.4
1	A	165	ALA	2.4
1	C	261	CYS	2.4
1	A	187	LYS	2.3
1	A	4	ARG	2.3
1	C	143	THR	2.3
1	C	246	LEU	2.3
1	C	122	GLU	2.3
1	A	47	VAL	2.3
1	A	137	THR	2.2
1	A	156	GLU	2.2
1	C	66	PRO	2.2
1	C	154	VAL	2.2
1	C	164	SER	2.2
1	A	147	PHE	2.1
1	A	203	ARG	2.1
1	A	23	HIS	2.1
1	A	20	LYS	2.1
1	C	258	LYS	2.1
1	A	150	SER	2.1
1	A	19	TYR	2.1
1	A	27	GLU	2.0

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Mol	Chain	Res	Type	RSRZ
1	A	145	GLU	2.0
1	C	217	SER	2.0
1	C	259	GLY	2.0
1	C	134	ALA	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 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($\text{\AA}^2$)	Q<0.9
2	CNI	C	401	17/17	0.77	0.19	38,38,39,39	0
2	CNI	A	401	17/17	0.79	0.19	38,38,39,39	0
3	ZN	A	402	1/1	0.89	0.29	31,31,31,31	0
3	ZN	A	403	1/1	0.95	0.33	37,37,37,37	0

6.5 Other polymers [i](#)

There are no such residues in this entry.