



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 8, 2026 – 02:49 PM UTC

PDB ID : 8QJ4 / pdb_00008qj4
Title : Receptor Sd-Amt1 (ON-state)
Authors : Andrade, S.L.; Pflueger, T.; Gschell, M.
Deposited on : 2023-09-12
Resolution : 1.70 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
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

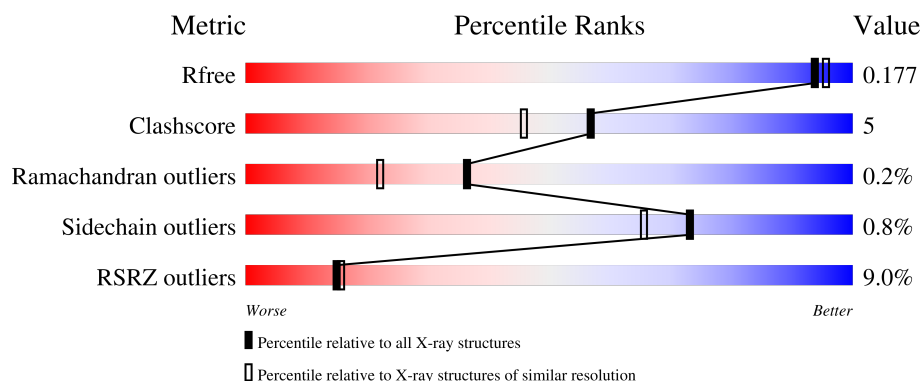
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.70 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	5551 (1.70-1.70)
Clashscore	190562	5924 (1.70-1.70)
Ramachandran outliers	187476	5846 (1.70-1.70)
Sidechain outliers	187428	5846 (1.70-1.70)
RSRZ outliers	180081	5554 (1.70-1.70)

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	644	6% 58% 38%
1	B	644	5% 58% 38%

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
3	NH4	A	703	-	-	X	-
3	NH4	A	704	-	-	X	-
3	NH4	B	703	-	-	X	-
3	NH4	B	704	-	-	X	-

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 6655 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.

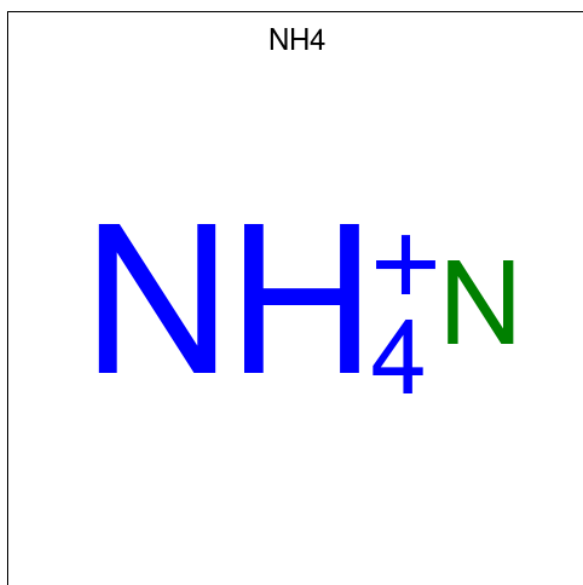
- Molecule 1 is a protein called Ammonium transporter.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	402	Total	C	N	O	S	0	9	0
			3112	2043	502	547	20			
1	B	402	Total	C	N	O	S	0	9	0
			3112	2042	502	547	21			

- Molecule 2 is CHLORIDE ION (CCD ID: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	2	Total	Cl	0	0
			2	2		
2	B	2	Total	Cl	0	0
			2	2		

- Molecule 3 is AMMONIUM ION (CCD ID: NH4) (formula: H₄N) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total N 1 1	0	0
3	A	1	Total N 1 1	0	0
3	B	1	Total N 1 1	0	0
3	B	1	Total N 1 1	0	0

- Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	204	Total O 204 204	0	0
4	B	219	Total O 219 219	0	0

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.

[illegible][illegible]

TYR
GLN
CYS
ALA
ASP
ASP
ALA
LEU
TYR
SER
ALA
LYS
GLN
ALA
GLY
ARG
ASN
GLY
VAL
LYS
ALA
VAL
ILE
ILE
ASP
GLU
ALA
HIS
GLU
GLN
THR
LYS
LYS

4 Data and refinement statistics

Property	Value	Source
Space group	H 3	Depositor
Cell constants a, b, c, α , β , γ	115.10Å 115.10Å 275.72Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	49.09 – 1.70 49.09 – 1.70	Depositor EDS
% Data completeness (in resolution range)	90.7 (49.09-1.70) 90.7 (49.09-1.70)	Depositor EDS
R_{merge}	0.11	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.49 (at 1.70Å)	Xtriage
Refinement program	REFMAC 5.8.0419	Depositor
R, R_{free}	0.150 , 0.166 0.165 , 0.177	Depositor DCC
R_{free} test set	6846 reflections (4.57%)	wwPDB-VP
Wilson B-factor (Å ²)	13.0	Xtriage
Anisotropy	0.139	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.28 , 42.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	0.000 for -h,1/3*h-1/3*k-1/3*l,-4/3*h-8/3*k+1/3*l 0.000 for -1/3*h+1/3*k+1/3*l,-k,8/3*h+4/3*k+1/3*l 0.012 for -2/3*h-1/3*k-1/3*l,-1/3*h-2/3*k+1/3*l,-4/3*h+4/3*k+1/3*l 0.000 for 1/3*h+2/3*k-1/3*l,-k,-8/3*h-4/3*k-1/3*l 0.012 for -1/3*h-2/3*k+1/3*l,-2/3*h-1/3*k-1/3*l,4/3*h-4/3*k-1/3*l 0.000 for -h,2/3*h+1/3*k+1/3*l,4/3*h+8/3*k-1/3*l 0.027 for h,-h-k,-l	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	6655	wwPDB-VP
Average B, all atoms (Å ²)	19.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 65.67 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 6.8284e-06. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

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: NH4, CL

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	0.80	0/3189	1.06	4/4335 (0.1%)
1	B	0.81	1/3189 (0.0%)	1.06	8/4334 (0.2%)
All	All	0.80	1/6378 (0.0%)	1.06	12/8669 (0.1%)

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	B	289	ASP	CG-OD2	-5.53	1.14	1.25

All (12) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	399	GLU	CB-CA-C	7.62	121.78	109.90
1	B	399	GLU	CB-CA-C	5.91	119.12	109.90
1	A	399	GLU	CB-CG-CD	5.89	122.62	112.60
1	A	48	ASP	CA-CB-CG	5.74	118.34	112.60
1	B	227	GLY	CA-C-N	-5.55	110.93	121.54
1	B	227	GLY	C-N-CA	-5.55	110.93	121.54
1	B	228	LYS	CB-CA-C	-5.53	99.42	110.42
1	B	228	LYS	CA-C-N	-5.45	116.01	123.14
1	B	228	LYS	C-N-CA	-5.45	116.01	123.14
1	A	22	GLN	CB-CG-CD	5.24	121.51	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	48	ASP	CA-CB-CG	5.21	117.81	112.60
1	B	142	ARG	N-CA-CB	-5.07	104.06	110.45

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	376	ARG	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	3112	0	3127	28	0
1	B	3112	0	3125	25	0
2	A	2	0	0	0	0
2	B	2	0	0	0	0
3	A	2	0	0	10	0
3	B	2	0	0	9	0
4	A	204	0	0	8	0
4	B	219	0	0	6	0
All	All	6655	0	6252	57	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 5.

All (57) 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:115:ARG:HD2	4:A:813:HOH:O	1.61	1.00
1:A:26:THR:HG22	4:A:945:HOH:O	1.62	0.99
1:B:26:THR:HG22	4:B:949:HOH:O	1.77	0.85
1:A:218:TRP:HE1	1:A:279[B]:THR:CG2	1.92	0.82
1:B:218:TRP:HE1	1:B:279[B]:THR:CG2	1.98	0.77
1:A:67:ASN:O	4:A:801:HOH:O	2.07	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:703:NH4:N	4:B:803:HOH:O	2.24	0.69
3:A:704:NH4:N	4:A:807:HOH:O	2.30	0.65
3:A:704:NH4:N	4:A:805:HOH:O	2.29	0.65
1:A:370:LEU:HB3	1:A:371:PRO:HD3	1.80	0.63
1:A:104:THR:O	3:A:703:NH4:N	2.32	0.63
1:B:104:THR:O	3:B:704:NH4:N	2.33	0.61
1:B:218:TRP:HE1	1:B:279[B]:THR:HG22	1.66	0.61
1:B:45:ASN:OD1	3:B:704:NH4:N	2.34	0.60
1:A:45:ASN:OD1	3:A:703:NH4:N	2.36	0.59
1:B:227:GLY:O	1:B:228:LYS:HB3	2.04	0.58
1:B:104:THR:OG1	3:B:704:NH4:N	2.37	0.57
1:B:29[A]:GLU:OE1	3:B:704:NH4:N	2.38	0.57
1:A:218:TRP:HE1	1:A:279[B]:THR:HG22	1.70	0.57
1:B:48:ASP:OD1	3:B:703:NH4:N	2.39	0.56
1:A:29[A]:GLU:OE1	3:A:703:NH4:N	2.38	0.56
1:A:48:ASP:OD1	3:A:704:NH4:N	2.39	0.55
1:B:114[B]:MET:HE3	1:B:183:ILE:HD13	1.88	0.55
1:B:218:TRP:HE1	1:B:279[B]:THR:HG21	1.72	0.54
1:A:107:SER:OG	3:A:703:NH4:N	2.41	0.53
1:B:107:SER:OG	3:B:704:NH4:N	2.42	0.53
1:B:160:ILE:CG2	1:B:334:LEU:HD11	2.38	0.53
1:A:4:SER:HB2	1:A:87:HIS:NE2	2.25	0.52
1:A:72:ILE:HD12	1:A:73:VAL:HG12	1.92	0.52
1:A:104:THR:OG1	3:A:703:NH4:N	2.44	0.51
1:A:218:TRP:HE1	1:A:279[B]:THR:HG21	1.75	0.50
1:A:278:ILE:C	1:A:278:ILE:HD12	2.37	0.50
1:A:200:PHE:CD1	1:A:262:LEU:HD22	2.48	0.49
1:B:45:ASN:O	3:B:703:NH4:N	2.46	0.48
1:B:278:ILE:C	1:B:278:ILE:HD12	2.38	0.48
1:A:45:ASN:O	3:A:704:NH4:N	2.47	0.48
3:B:703:NH4:N	4:B:807:HOH:O	2.35	0.48
1:B:275:LEU:O	1:B:279[B]:THR:HG23	2.14	0.47
1:B:200:PHE:CD1	1:B:262:LEU:HD22	2.50	0.47
1:A:200:PHE:CD1	1:A:262:LEU:CD2	2.98	0.47
1:A:157:LEU:HD23	4:A:995:HOH:O	2.14	0.46
1:B:3:GLU:HG2	1:B:4:SER:H	1.80	0.46
1:A:115:ARG:HD3	1:A:383:PRO:O	2.16	0.45
1:B:289:ASP:OD2	4:B:802:HOH:O	2.21	0.45
1:A:347:ASN:N	4:A:814:HOH:O	2.49	0.45
1:A:346:GLY:C	4:A:814:HOH:O	2.60	0.45
1:B:71:GLY:O	4:B:801:HOH:O	2.21	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:104:THR:OG1	3:A:704:NH4:N	2.50	0.43
1:A:68:SER:HB3	1:A:136:HIS:NE2	2.33	0.43
1:A:275:LEU:O	1:A:279[B]:THR:HG23	2.18	0.43
1:B:347:ASN:HD21	1:B:355:ILE:HD12	1.84	0.43
1:A:262:LEU:HD12	1:A:262:LEU:HA	1.93	0.43
1:B:200:PHE:CD1	1:B:262:LEU:CD2	3.03	0.42
1:B:160:ILE:HG22	1:B:334:LEU:HD11	2.02	0.41
1:B:346:GLY:C	4:B:917:HOH:O	2.62	0.41
1:A:377:LEU:C	1:A:377:LEU:HD23	2.46	0.41
1:B:370:LEU:HB3	1:B:371:PRO:HD3	2.03	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	409/644 (64%)	391 (96%)	17 (4%)	1 (0%)	43	28
1	B	409/644 (64%)	392 (96%)	16 (4%)	1 (0%)	43	28
All	All	818/1288 (64%)	783 (96%)	33 (4%)	2 (0%)	36	28

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	228	LYS
1	A	228	LYS

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	331/532 (62%)	328 (99%)	3 (1%)	70	62
1	B	331/532 (62%)	329 (99%)	2 (1%)	78	72
All	All	662/1064 (62%)	657 (99%)	5 (1%)	73	65

All (5) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	72	ILE
1	A	218	TRP
1	A	228	LYS
1	B	218	TRP
1	B	228	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (4) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	22	GLN
1	A	156	GLN
1	A	192	ASN
1	B	222	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 ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 8 ligands modelled in this entry, 4 are monoatomic and 4 are modelled with single atom - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

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, 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	402/644 (62%)	0.23	38 (9%)	14 14	3, 15, 42, 91	9 (2%)
1	B	402/644 (62%)	0.12	34 (8%)	16 17	3, 14, 40, 90	9 (2%)
All	All	804/1288 (62%)	0.18	72 (8%)	15 16	3, 14, 42, 91	18 (2%)

All (72) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	147	GLU	9.9
1	B	147	GLU	7.9
1	A	148	THR	7.4
1	B	148	THR	6.8
1	A	69	ILE	6.7
1	A	68	SER	6.1
1	B	404	SER	6.0
1	A	404	SER	5.4
1	B	307	LEU	5.2
1	A	191	ASN	5.1
1	B	257	TRP	5.1
1	A	72	ILE	5.0
1	A	71	GLY	4.8
1	A	3	GLU	4.7
1	B	69	ILE	4.7
1	B	403	LYS	4.5
1	A	344	ILE	4.4
1	B	194	HIS	4.4
1	A	257	TRP	4.3
1	B	192	ASN	4.3
1	A	194	HIS	4.3
1	B	72	ILE	4.3
1	A	146	SER	4.1
1	B	3	GLU	4.1

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Mol	Chain	Res	Type	RSRZ
1	A	346	GLY	4.0
1	A	70	ASP	4.0
1	B	200	PHE	3.9
1	A	82	THR	3.8
1	A	192	ASN	3.8
1	A	149	SER	3.7
1	B	193	LYS	3.7
1	A	200	PHE	3.7
1	A	73	VAL	3.7
1	A	307[A]	LEU	3.5
1	A	193	LYS	3.5
1	B	228	LYS	3.5
1	A	345	ALA	3.3
1	A	403	LYS	3.3
1	B	191	ASN	3.3
1	B	70	ASP	3.2
1	B	399	GLU	3.2
1	A	195	GLY	3.0
1	B	195	GLY	3.0
1	A	228	LYS	2.9
1	B	380	ARG	2.9
1	B	146	SER	2.9
1	B	4	SER	2.6
1	A	377	LEU	2.6
1	B	377	LEU	2.6
1	B	82	THR	2.6
1	A	196	VAL	2.6
1	B	381	VAL	2.5
1	A	365	ILE	2.5
1	B	258	GLN	2.5
1	A	373[A]	MET	2.5
1	A	156	GLN	2.5
1	B	345	ALA	2.5
1	A	381	VAL	2.4
1	A	150	THR	2.4
1	B	365	ILE	2.4
1	A	229	ILE	2.3
1	B	196	VAL	2.3
1	B	149	SER	2.3
1	A	380	ARG	2.3
1	B	150	THR	2.2
1	B	68	SER	2.2

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Mol	Chain	Res	Type	RSRZ
1	B	73	VAL	2.1
1	A	4	SER	2.1
1	A	145	GLY	2.1
1	B	156	GLN	2.1
1	A	197	ASN	2.0
1	B	145	GLY	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](#)

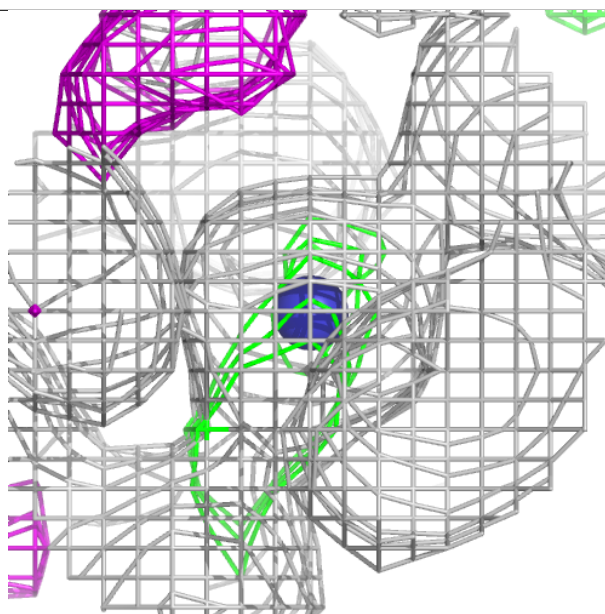
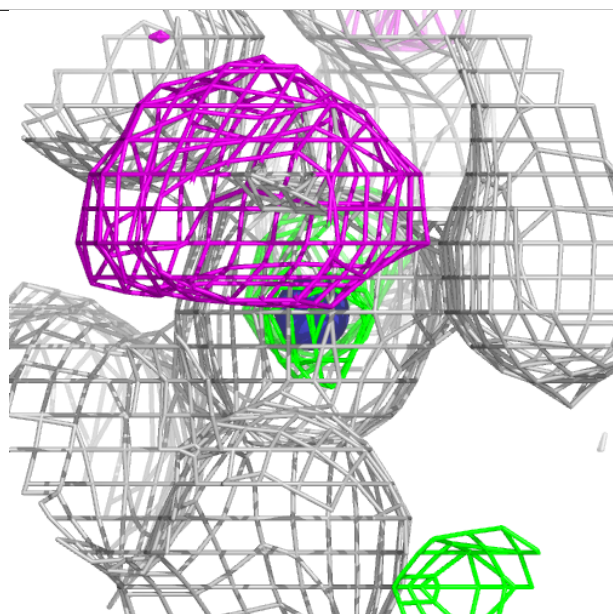
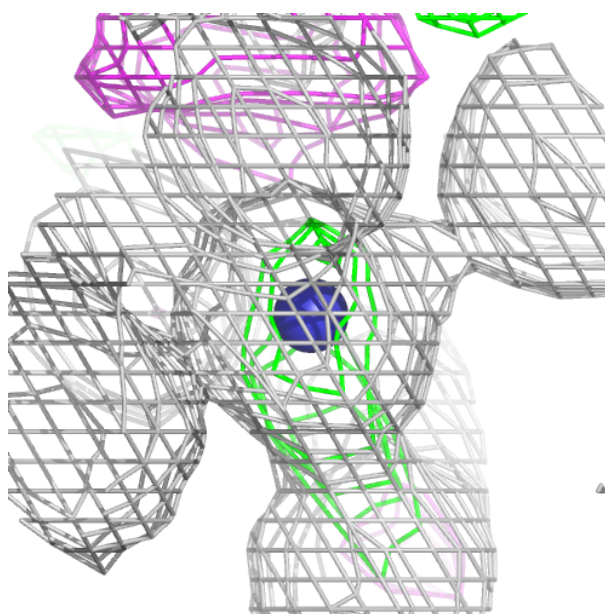
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q<0.9' lists 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	CL	B	701	1/1	0.98	0.08	4,4,4,4	0
2	CL	A	702	1/1	0.99	0.09	2,2,2,2	0
2	CL	A	701	1/1	0.99	0.03	11,11,11,11	0
2	CL	B	702	1/1	0.99	0.03	10,10,10,10	0
3	NH4	A	703	1/1	0.99	0.09	0,0,0,0	0
3	NH4	A	704	1/1	0.99	0.13	0,0,0,0	0
3	NH4	B	703	1/1	0.99	0.10	0,0,0,0	0
3	NH4	B	704	1/1	0.99	0.09	0,0,0,0	0

The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

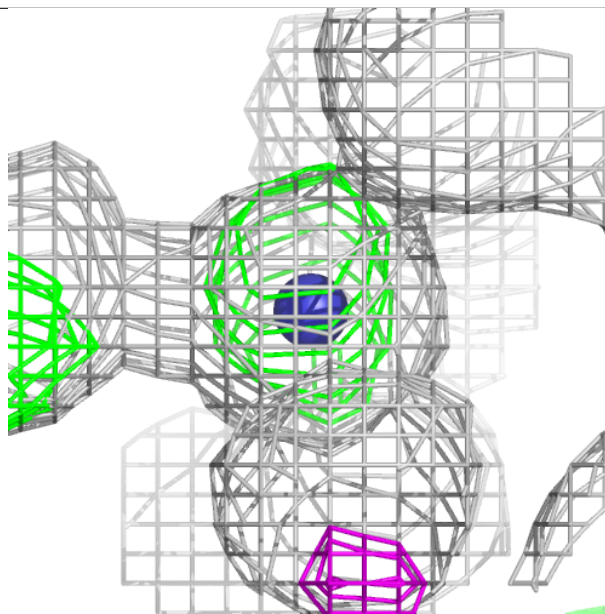
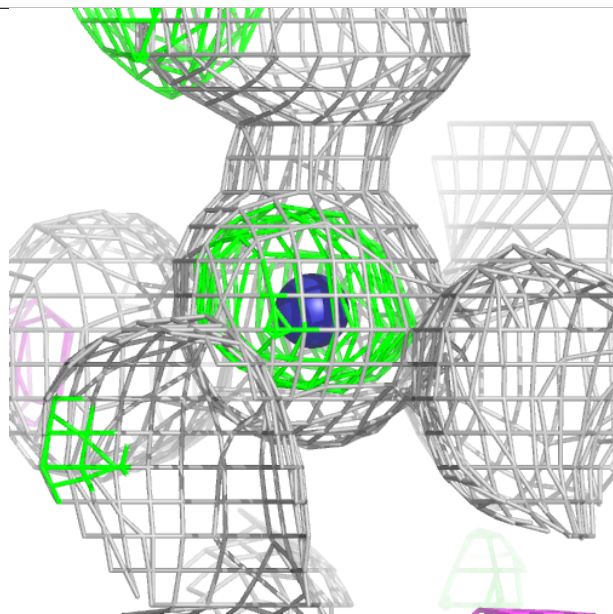
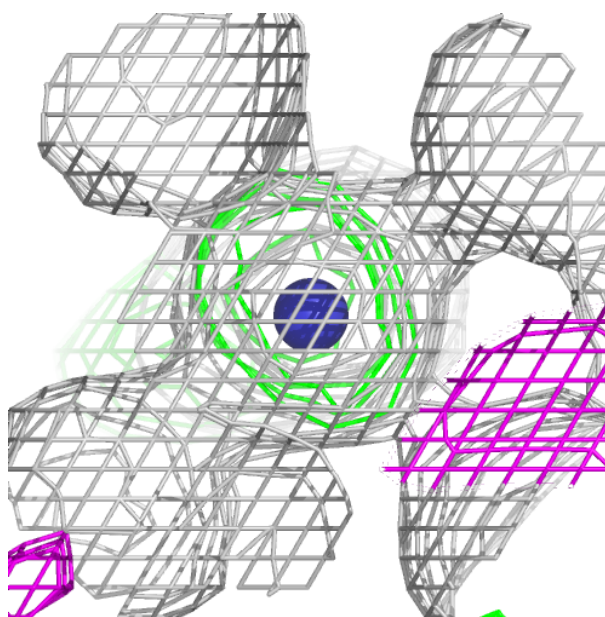
Electron density around NH4 A 703:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



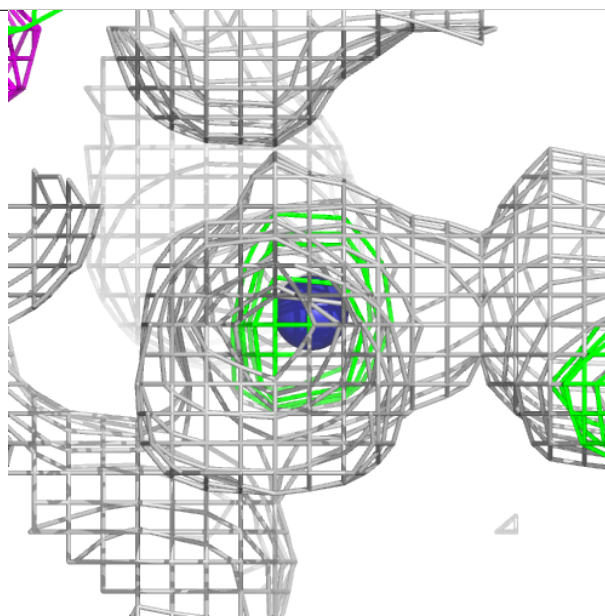
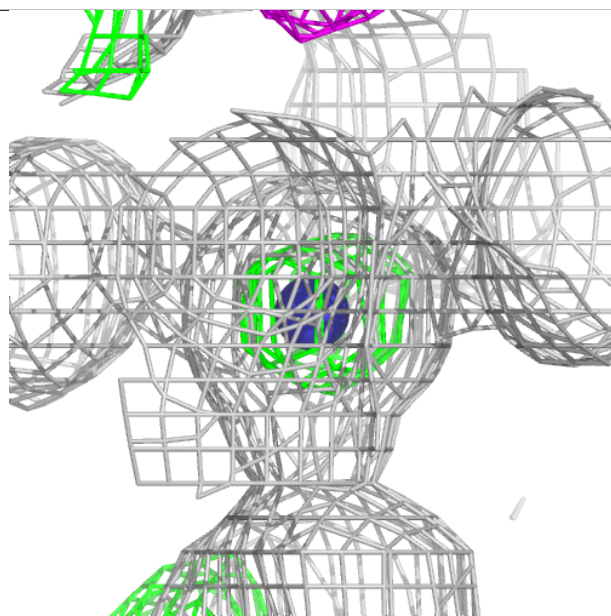
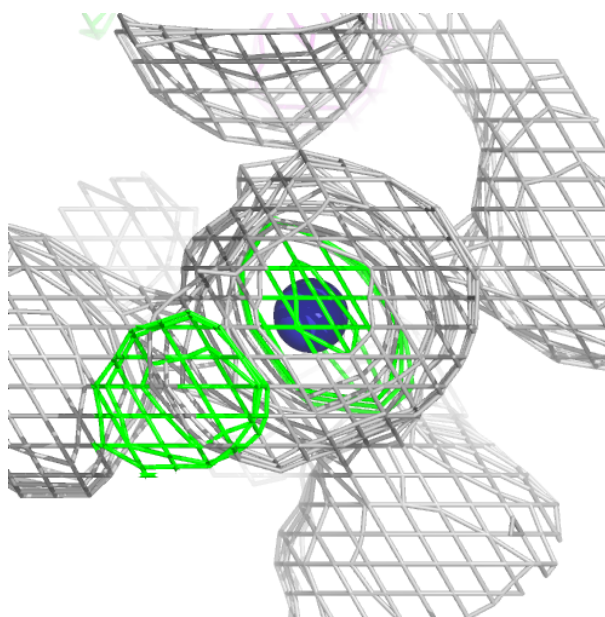
Electron density around NH4 A 704:

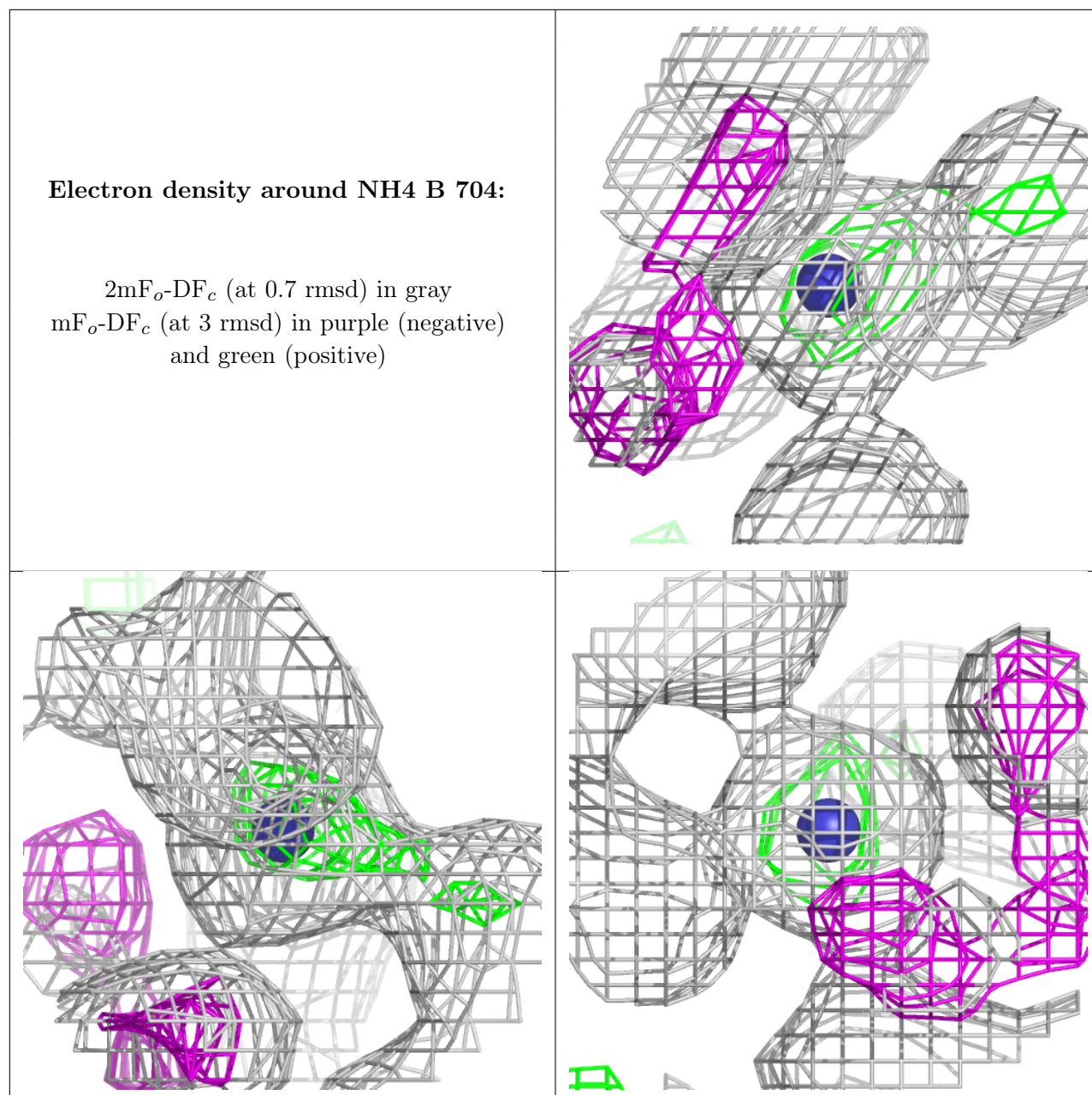
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around NH4 B 703:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





6.5 Other polymers ⓘ

There are no such residues in this entry.