



wwPDB EM Validation Summary Report ⓘ

Mar 29, 2026 – 05:24 AM UTC

PDB ID : 7WSW / pdb_00007wsw
EMDB ID : EMD-32769
Title : Cryo-EM structure of the Potassium channel AKT1 from Arabidopsis thaliana
Authors : Yang, G.H.; Lu, Y.M.; Zhang, Y.M.; Jia, Y.T.; Li, X.M.; Lei, J.L.
Deposited on : 2022-02-02
Resolution : 3.40 Å(reported)

This is a wwPDB EM Validation Summary 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/EMValidationReportHelp>

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:

EMDB validation analysis : 0.0.1.dev132
Mogul : 2022.3.0, CSD as543be (2022)
MolProbity : 4-5-2 with Phenix2.0
Buster-report : wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

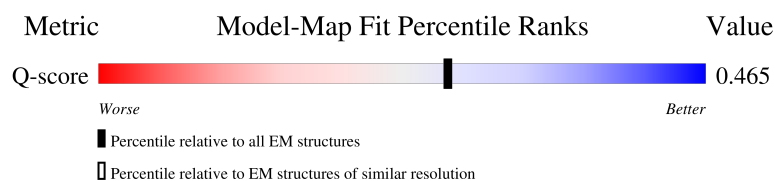
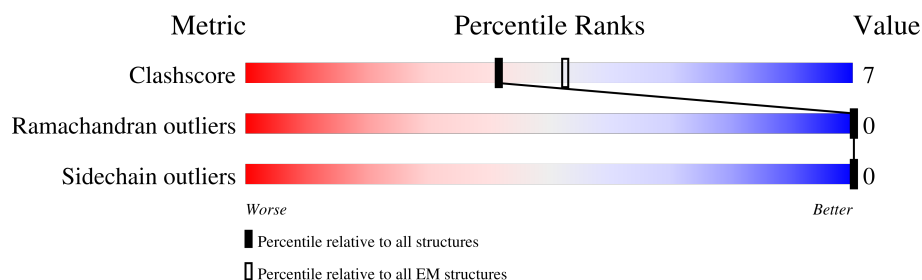
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.40 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)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	14717 (2.90 - 3.90)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the 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 EM map (all-atom inclusion $< 40\%$). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	879	
1	B	879	
1	C	879	
1	D	879	

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 15051 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, 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 Potassium channel AKT1.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	472	Total	C	N	O	S	0	0
			3735	2429	630	655	21		
1	B	462	Total	C	N	O	S	0	0
			3709	2410	629	647	23		
1	D	462	Total	C	N	O	S	0	0
			3709	2410	629	647	23		
1	C	472	Total	C	N	O	S	0	0
			3735	2429	630	655	21		

There are 88 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-21	MET	-	initiating methionine	UNP Q38998
A	-20	ALA	-	expression tag	UNP Q38998
A	-19	SER	-	expression tag	UNP Q38998
A	-18	ASP	-	expression tag	UNP Q38998
A	-17	TYR	-	expression tag	UNP Q38998
A	-16	LYS	-	expression tag	UNP Q38998
A	-15	ASP	-	expression tag	UNP Q38998
A	-14	ASP	-	expression tag	UNP Q38998
A	-13	ASP	-	expression tag	UNP Q38998
A	-12	ASP	-	expression tag	UNP Q38998
A	-11	LYS	-	expression tag	UNP Q38998
A	-10	ALA	-	expression tag	UNP Q38998
A	-9	SER	-	expression tag	UNP Q38998
A	-8	ASP	-	expression tag	UNP Q38998
A	-7	GLU	-	expression tag	UNP Q38998
A	-6	VAL	-	expression tag	UNP Q38998
A	-5	ASP	-	expression tag	UNP Q38998
A	-4	ALA	-	expression tag	UNP Q38998
A	-3	GLY	-	expression tag	UNP Q38998
A	-2	THR	-	expression tag	UNP Q38998
A	-1	ALA	-	expression tag	UNP Q38998
A	0	THR	-	expression tag	UNP Q38998

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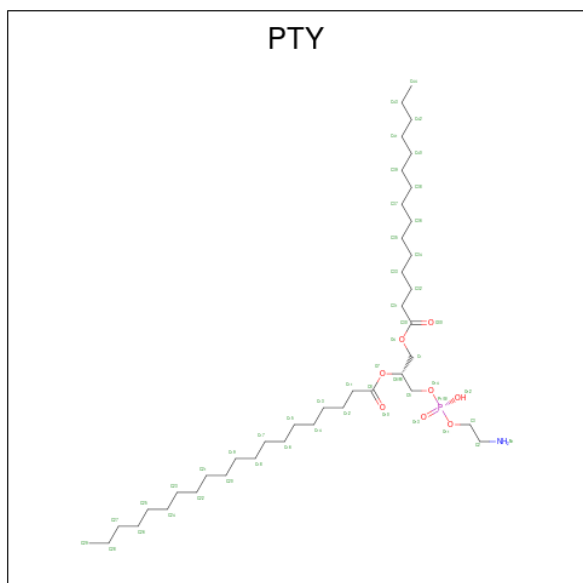
Chain	Residue	Modelled	Actual	Comment	Reference
B	-21	MET	-	initiating methionine	UNP Q38998
B	-20	ALA	-	expression tag	UNP Q38998
B	-19	SER	-	expression tag	UNP Q38998
B	-18	ASP	-	expression tag	UNP Q38998
B	-17	TYR	-	expression tag	UNP Q38998
B	-16	LYS	-	expression tag	UNP Q38998
B	-15	ASP	-	expression tag	UNP Q38998
B	-14	ASP	-	expression tag	UNP Q38998
B	-13	ASP	-	expression tag	UNP Q38998
B	-12	ASP	-	expression tag	UNP Q38998
B	-11	LYS	-	expression tag	UNP Q38998
B	-10	ALA	-	expression tag	UNP Q38998
B	-9	SER	-	expression tag	UNP Q38998
B	-8	ASP	-	expression tag	UNP Q38998
B	-7	GLU	-	expression tag	UNP Q38998
B	-6	VAL	-	expression tag	UNP Q38998
B	-5	ASP	-	expression tag	UNP Q38998
B	-4	ALA	-	expression tag	UNP Q38998
B	-3	GLY	-	expression tag	UNP Q38998
B	-2	THR	-	expression tag	UNP Q38998
B	-1	ALA	-	expression tag	UNP Q38998
B	0	THR	-	expression tag	UNP Q38998
D	-21	MET	-	initiating methionine	UNP Q38998
D	-20	ALA	-	expression tag	UNP Q38998
D	-19	SER	-	expression tag	UNP Q38998
D	-18	ASP	-	expression tag	UNP Q38998
D	-17	TYR	-	expression tag	UNP Q38998
D	-16	LYS	-	expression tag	UNP Q38998
D	-15	ASP	-	expression tag	UNP Q38998
D	-14	ASP	-	expression tag	UNP Q38998
D	-13	ASP	-	expression tag	UNP Q38998
D	-12	ASP	-	expression tag	UNP Q38998
D	-11	LYS	-	expression tag	UNP Q38998
D	-10	ALA	-	expression tag	UNP Q38998
D	-9	SER	-	expression tag	UNP Q38998
D	-8	ASP	-	expression tag	UNP Q38998
D	-7	GLU	-	expression tag	UNP Q38998
D	-6	VAL	-	expression tag	UNP Q38998
D	-5	ASP	-	expression tag	UNP Q38998
D	-4	ALA	-	expression tag	UNP Q38998
D	-3	GLY	-	expression tag	UNP Q38998
D	-2	THR	-	expression tag	UNP Q38998

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Chain	Residue	Modelled	Actual	Comment	Reference
D	-1	ALA	-	expression tag	UNP Q38998
D	0	THR	-	expression tag	UNP Q38998
C	-21	MET	-	initiating methionine	UNP Q38998
C	-20	ALA	-	expression tag	UNP Q38998
C	-19	SER	-	expression tag	UNP Q38998
C	-18	ASP	-	expression tag	UNP Q38998
C	-17	TYR	-	expression tag	UNP Q38998
C	-16	LYS	-	expression tag	UNP Q38998
C	-15	ASP	-	expression tag	UNP Q38998
C	-14	ASP	-	expression tag	UNP Q38998
C	-13	ASP	-	expression tag	UNP Q38998
C	-12	ASP	-	expression tag	UNP Q38998
C	-11	LYS	-	expression tag	UNP Q38998
C	-10	ALA	-	expression tag	UNP Q38998
C	-9	SER	-	expression tag	UNP Q38998
C	-8	ASP	-	expression tag	UNP Q38998
C	-7	GLU	-	expression tag	UNP Q38998
C	-6	VAL	-	expression tag	UNP Q38998
C	-5	ASP	-	expression tag	UNP Q38998
C	-4	ALA	-	expression tag	UNP Q38998
C	-3	GLY	-	expression tag	UNP Q38998
C	-2	THR	-	expression tag	UNP Q38998
C	-1	ALA	-	expression tag	UNP Q38998
C	0	THR	-	expression tag	UNP Q38998

- Molecule 2 is PHOSPHATIDYLETHANOLAMINE (CCD ID: PTY) (formula: $C_{40}H_{80}NO_8P$).

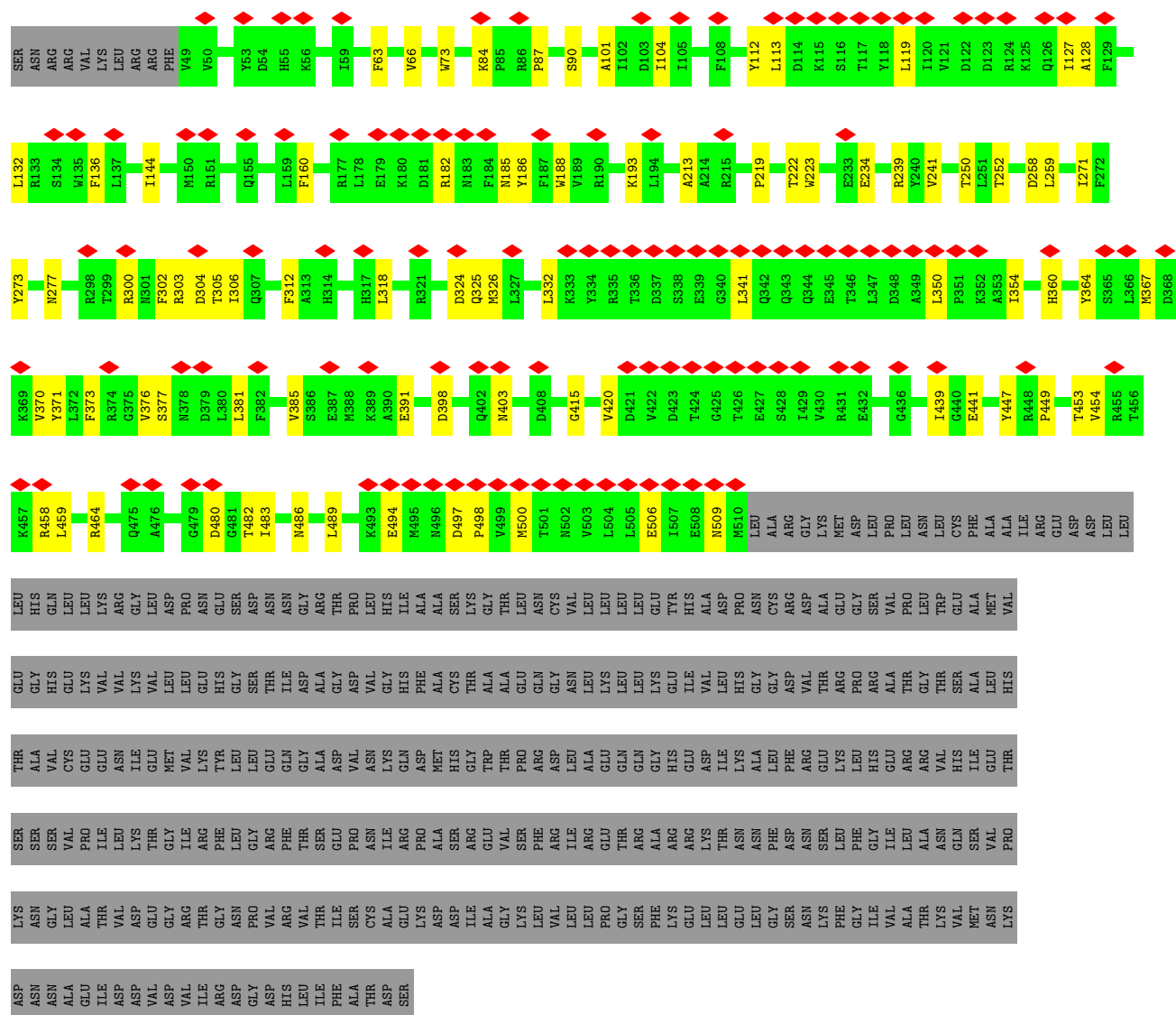


Mol	Chain	Residues	Atoms				AltConf
2	A	1	Total	C	O	P	0
			40	31	8	1	
2	B	1	Total	C	O	P	0
			40	31	8	1	
2	D	1	Total	C	O	P	0
			40	31	8	1	
2	C	1	Total	C	O	P	0
			40	31	8	1	

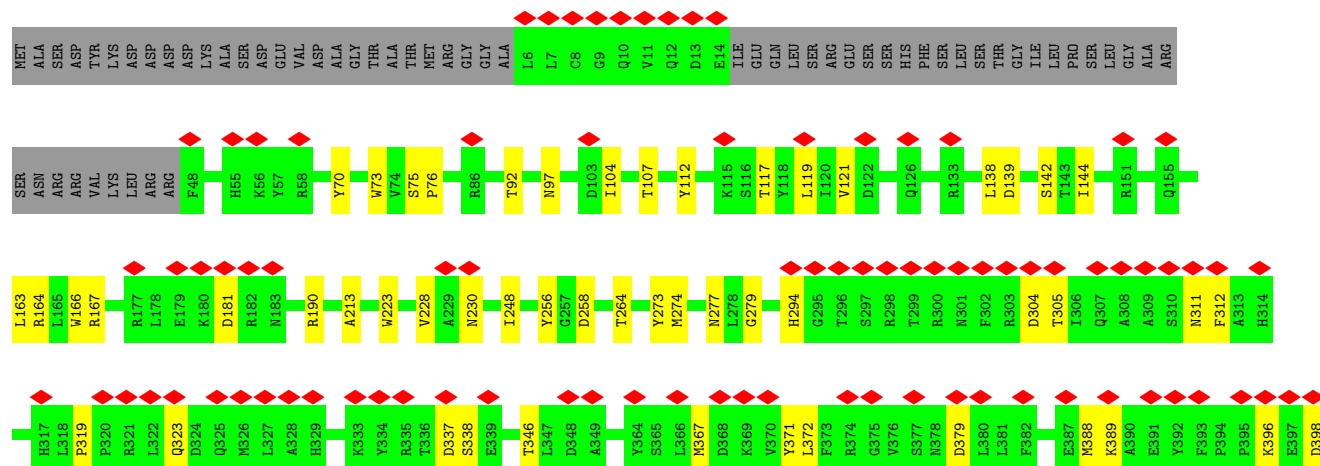
- Molecule 3 is POTASSIUM ION (CCD ID: K) (formula: K).

Mol	Chain	Residues	Atoms		AltConf
3	A	3	Total	K	0
			3	3	

MET	ALA	SER	ASP	TYR	LYS	ASP	ASP	ASP	ASP	ASP	LYS	ALA	SER	ASP	GLU	VAL	ASP	ALA	GLY	THR	ALA	ALA	THR	MET	ARG	GLY	GLY	ALA	LEU	LEU	CYS	GLY	GLN	VAL	GLN	ASP	GLU	ILE	GLU	GLN	LEU	SER	ARG	GLU	SER	SER	SER	PHE	SER	LEU	THR	GLY	ILE	LEU	PRO	SER	SER	LEU	GLY	ALA
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• Molecule 1: Potassium channel AKT1



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	181714	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	NONE	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	1.5625	Depositor
Minimum defocus (nm)	1500	Depositor
Maximum defocus (nm)	1800	Depositor
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	0.063	Depositor
Minimum map value	-0.024	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.002	Depositor
Recommended contour level	0.0188	Depositor
Map size ($\text{\AA}$)	346.4, 346.4, 346.4	wwPDB
Map dimensions	320, 320, 320	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	1.0825, 1.0825, 1.0825	Depositor

5 Model quality [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: PTY, K

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	0.11	0/3823	0.30	0/5199
1	B	0.11	0/3799	0.28	0/5164
1	C	0.11	0/3823	0.29	0/5199
1	D	0.11	0/3799	0.30	0/5164
All	All	0.11	0/15244	0.29	0/20726

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 [i](#)

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	3735	0	3676	43	0
1	B	3709	0	3689	64	0
1	C	3735	0	3676	53	0
1	D	3709	0	3689	62	0
2	A	40	0	56	2	0
2	B	40	0	56	2	0
2	C	40	0	56	2	0
2	D	40	0	56	2	0
3	A	3	0	0	0	0
All	All	15051	0	14954	204	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.

The worst 5 of 204 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:B:448:ARG:HH12	1:B:501:THR:HG22	1.56	0.70
1:A:273:TYR:O	1:A:277:ASN:ND2	2.21	0.69
1:C:273:TYR:O	1:C:277:ASN:ND2	2.23	0.69
1:D:303:ARG:NH1	1:C:181:ASP:O	2.27	0.68
1:A:228:VAL:HG12	1:A:230:ASN:H	1.59	0.68

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 PDB entries followed by that with respect to all EM entries.

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	468/879 (53%)	446 (95%)	22 (5%)	0	100	100
1	B	460/879 (52%)	430 (94%)	30 (6%)	0	100	100
1	C	468/879 (53%)	445 (95%)	23 (5%)	0	100	100
1	D	460/879 (52%)	433 (94%)	27 (6%)	0	100	100
All	All	1856/3516 (53%)	1754 (94%)	102 (6%)	0	100	100

There are no Ramachandran outliers to report.

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 PDB entries followed by that with respect to all EM entries.

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	391/764 (51%)	391 (100%)	0	100	100
1	B	397/764 (52%)	397 (100%)	0	100	100
1	C	391/764 (51%)	391 (100%)	0	100	100
1	D	397/764 (52%)	397 (100%)	0	100	100
All	All	1576/3056 (52%)	1576 (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 (4) such sidechains are listed below:

Mol	Chain	Res	Type
1	B	509	ASN
1	D	218	ASN
1	D	477	ASN
1	C	294	HIS

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 7 ligands modelled in this entry, 3 are monoatomic - leaving 4 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	PTY	A	901	-	39,39,49	0.40	0	42,44,54	0.53	1 (2%)
2	PTY	D	901	-	39,39,49	0.39	0	42,44,54	0.55	1 (2%)
2	PTY	B	901	-	39,39,49	0.39	0	42,44,54	0.55	1 (2%)
2	PTY	C	901	-	39,39,49	0.40	0	42,44,54	0.53	1 (2%)

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	PTY	A	901	-	-	0/41/41/53	-
2	PTY	D	901	-	-	3/41/41/53	-
2	PTY	B	901	-	-	3/41/41/53	-
2	PTY	C	901	-	-	0/41/41/53	-

There are no bond length outliers.

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	D	901	PTY	O12-P1-O13	2.38	120.11	110.83
2	B	901	PTY	O12-P1-O13	2.38	120.10	110.83
2	C	901	PTY	O12-P1-O13	2.34	119.95	110.83
2	A	901	PTY	O12-P1-O13	2.33	119.92	110.83

There are no chirality outliers.

5 of 6 torsion outliers are listed below:

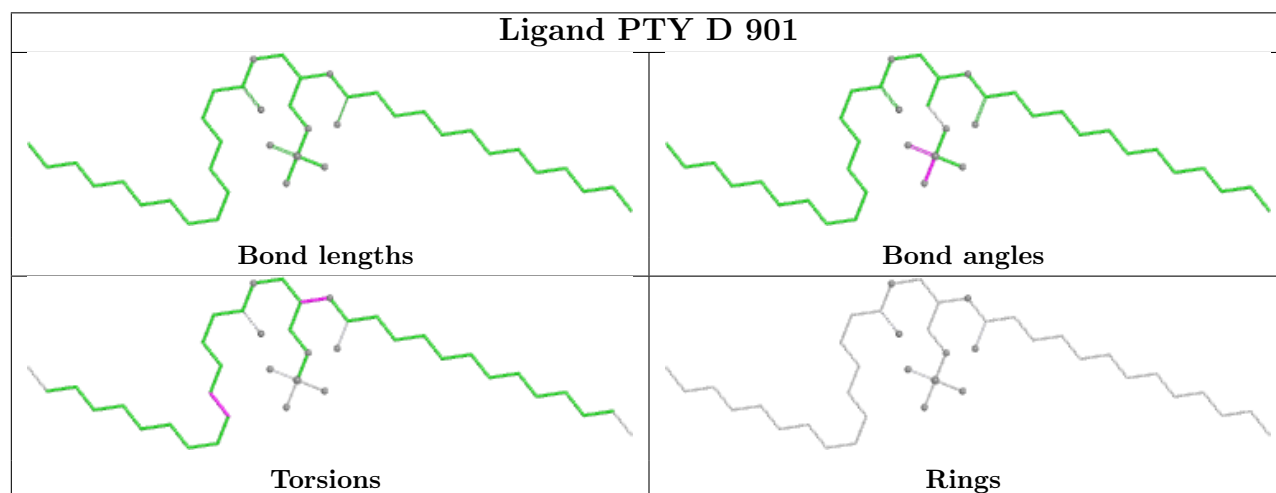
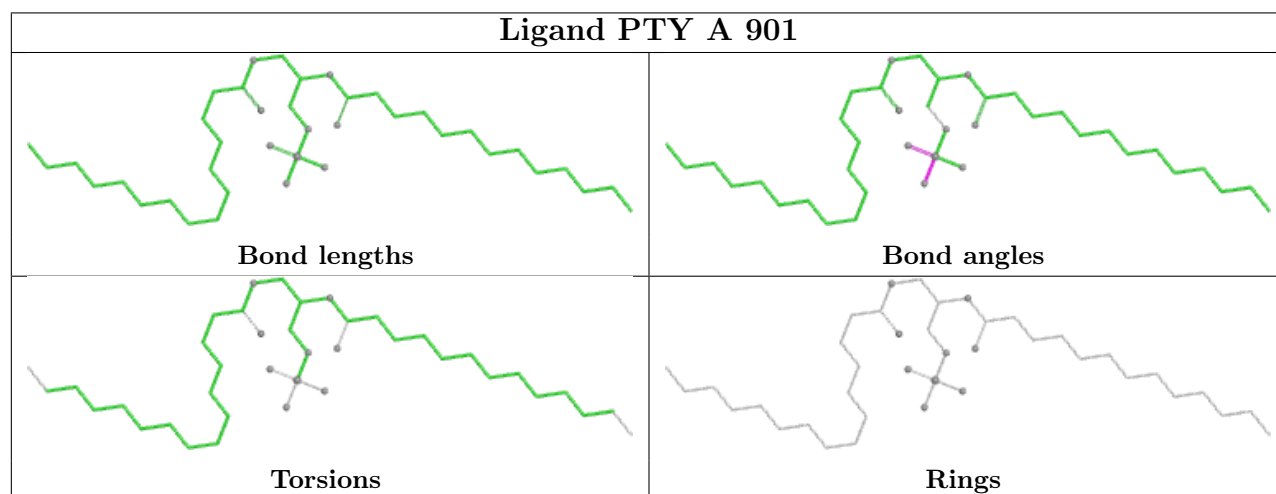
Mol	Chain	Res	Type	Atoms
2	B	901	PTY	C1-C6-O7-C8
2	B	901	PTY	C5-C6-O7-C8
2	D	901	PTY	C1-C6-O7-C8
2	D	901	PTY	C5-C6-O7-C8
2	D	901	PTY	C33-C34-C35-C36

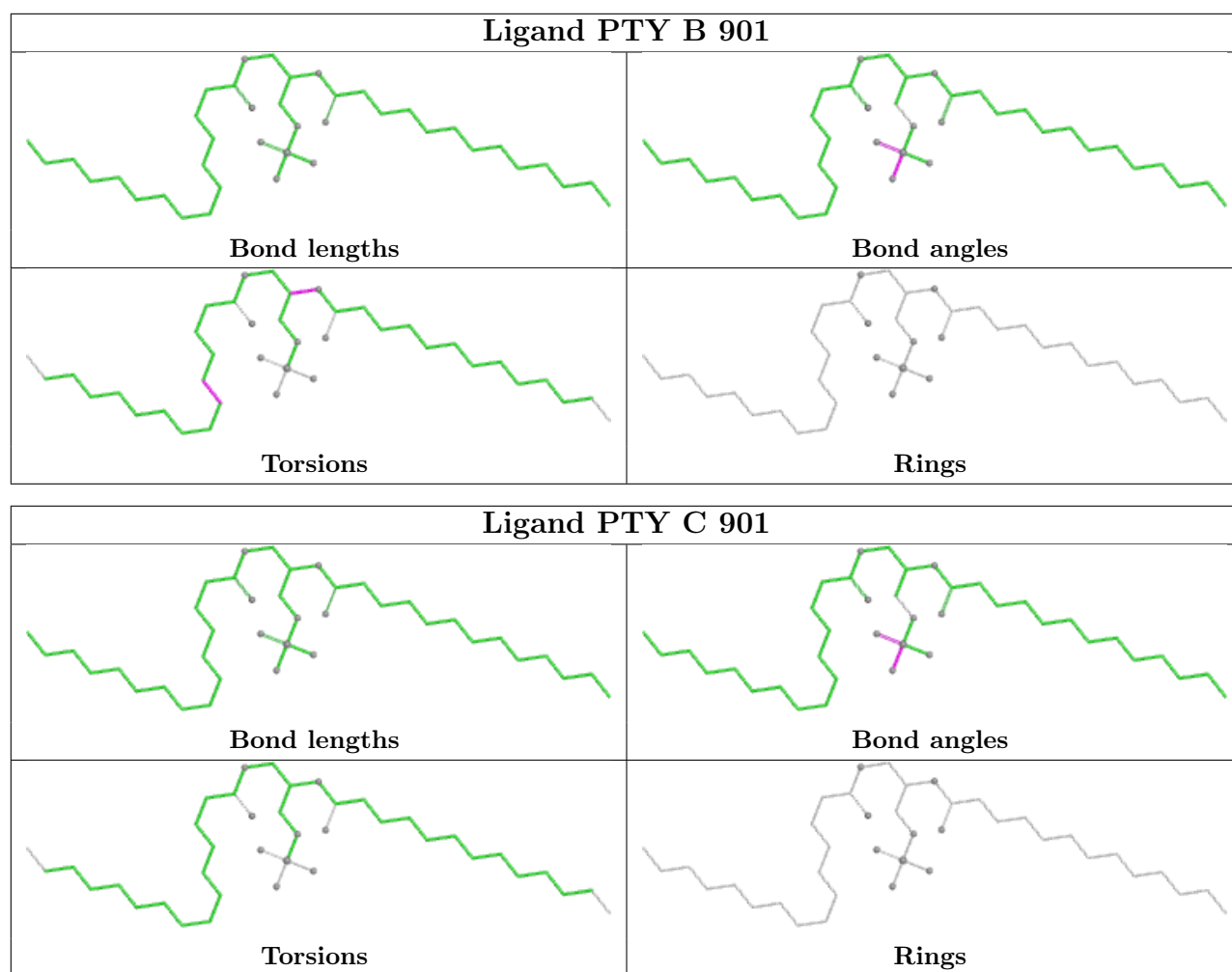
There are no ring outliers.

4 monomers are involved in 8 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	901	PTY	2	0
2	D	901	PTY	2	0
2	B	901	PTY	2	0
2	C	901	PTY	2	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.





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.

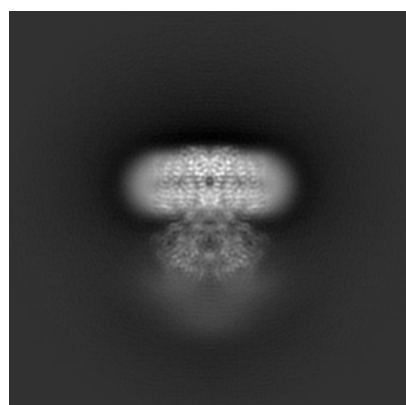
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-32769. These allow visual inspection of the internal detail of the map and identification of artifacts.

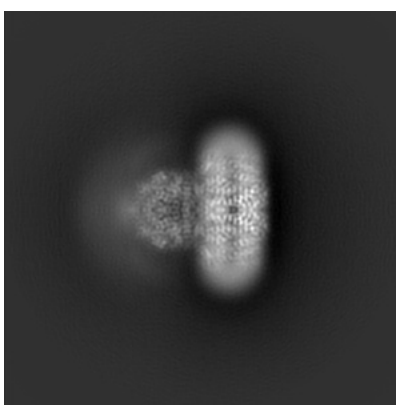
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

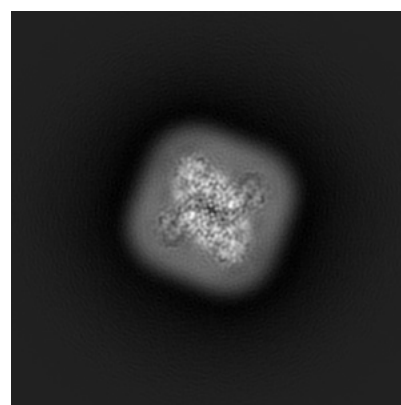
6.1.1 Primary map



X



Y

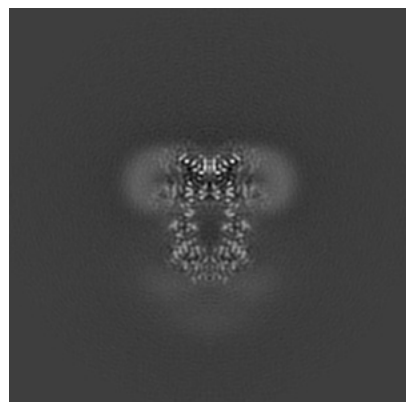


Z

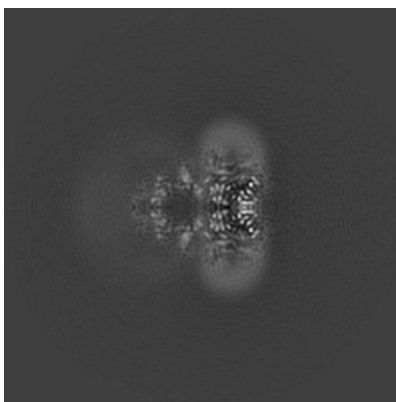
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

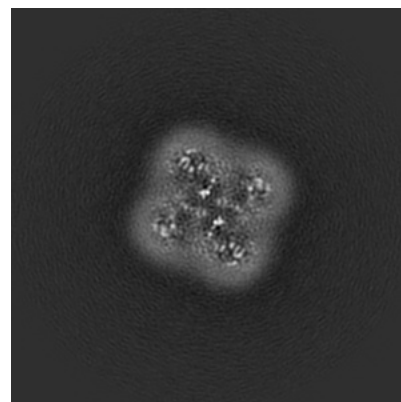
6.2.1 Primary map



X Index: 160



Y Index: 160

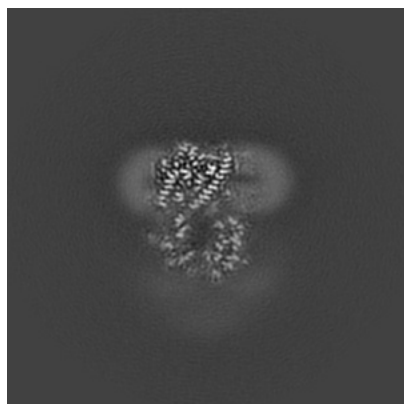


Z Index: 160

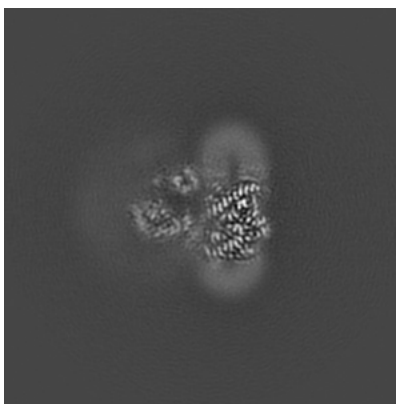
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

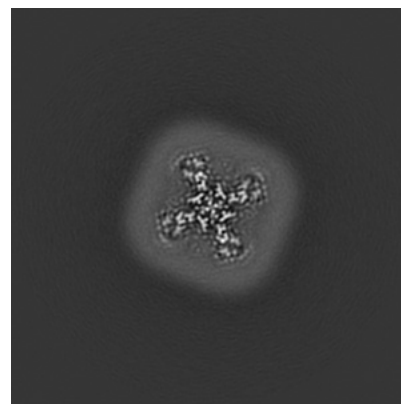
6.3.1 Primary map



X Index: 167



Y Index: 153

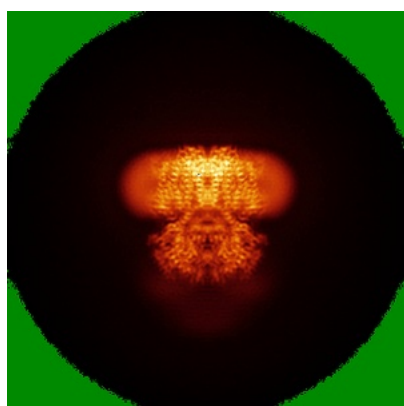


Z Index: 189

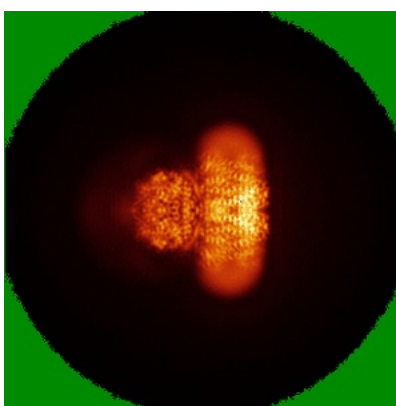
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) [i](#)

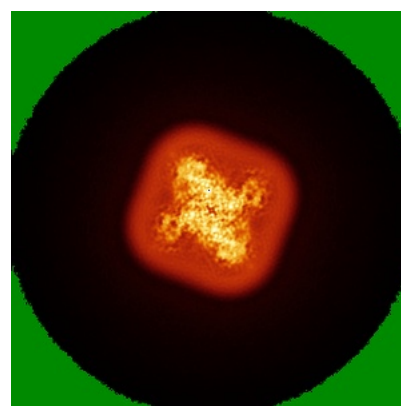
6.4.1 Primary map



X



Y

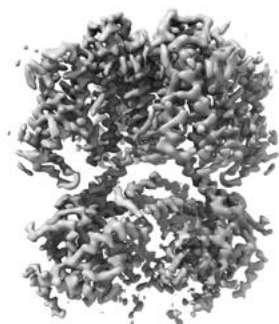


Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views [i](#)

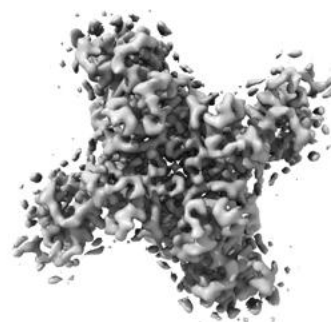
6.5.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.0188. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

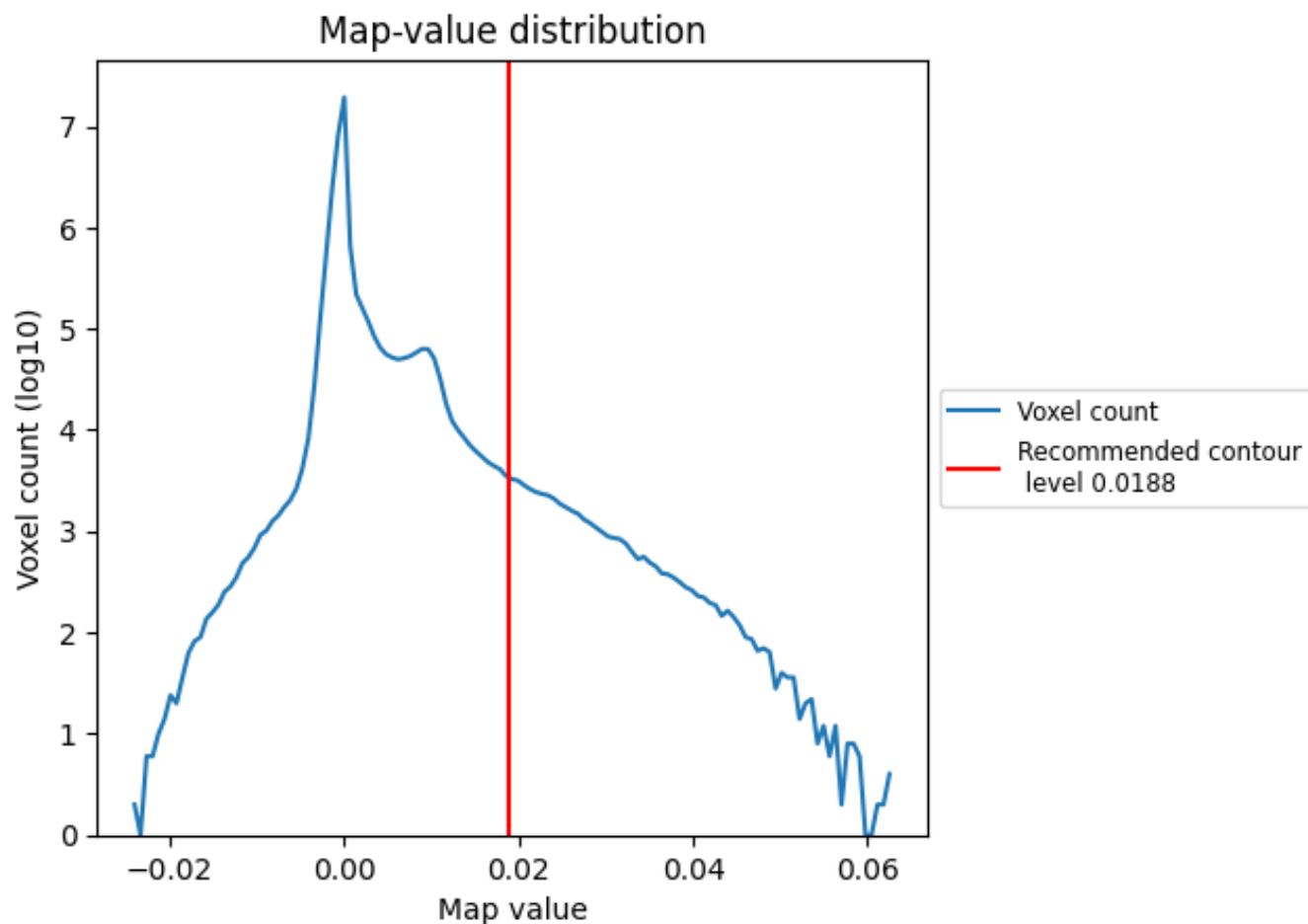
6.6 Mask visualisation [i](#)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis [i](#)

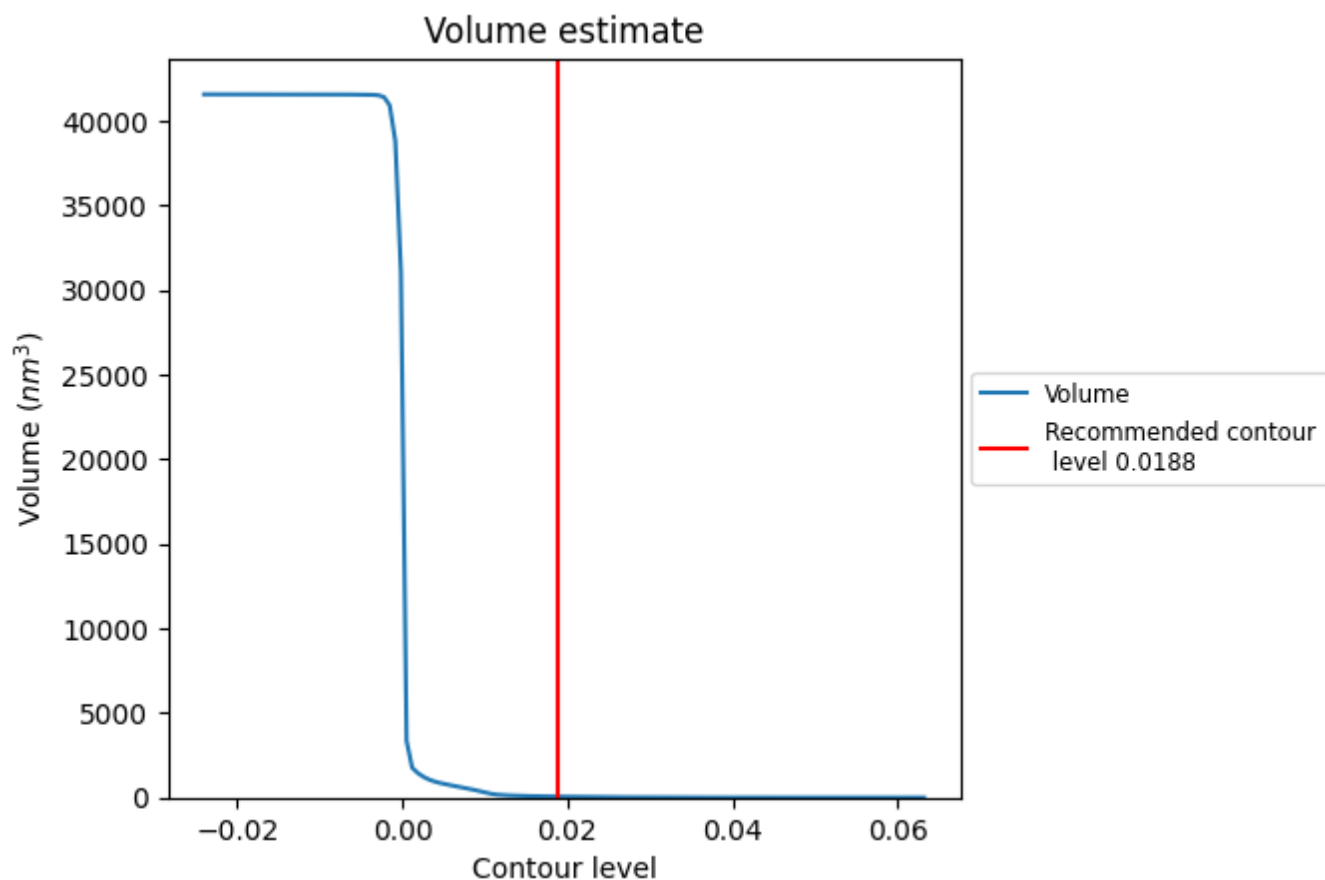
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

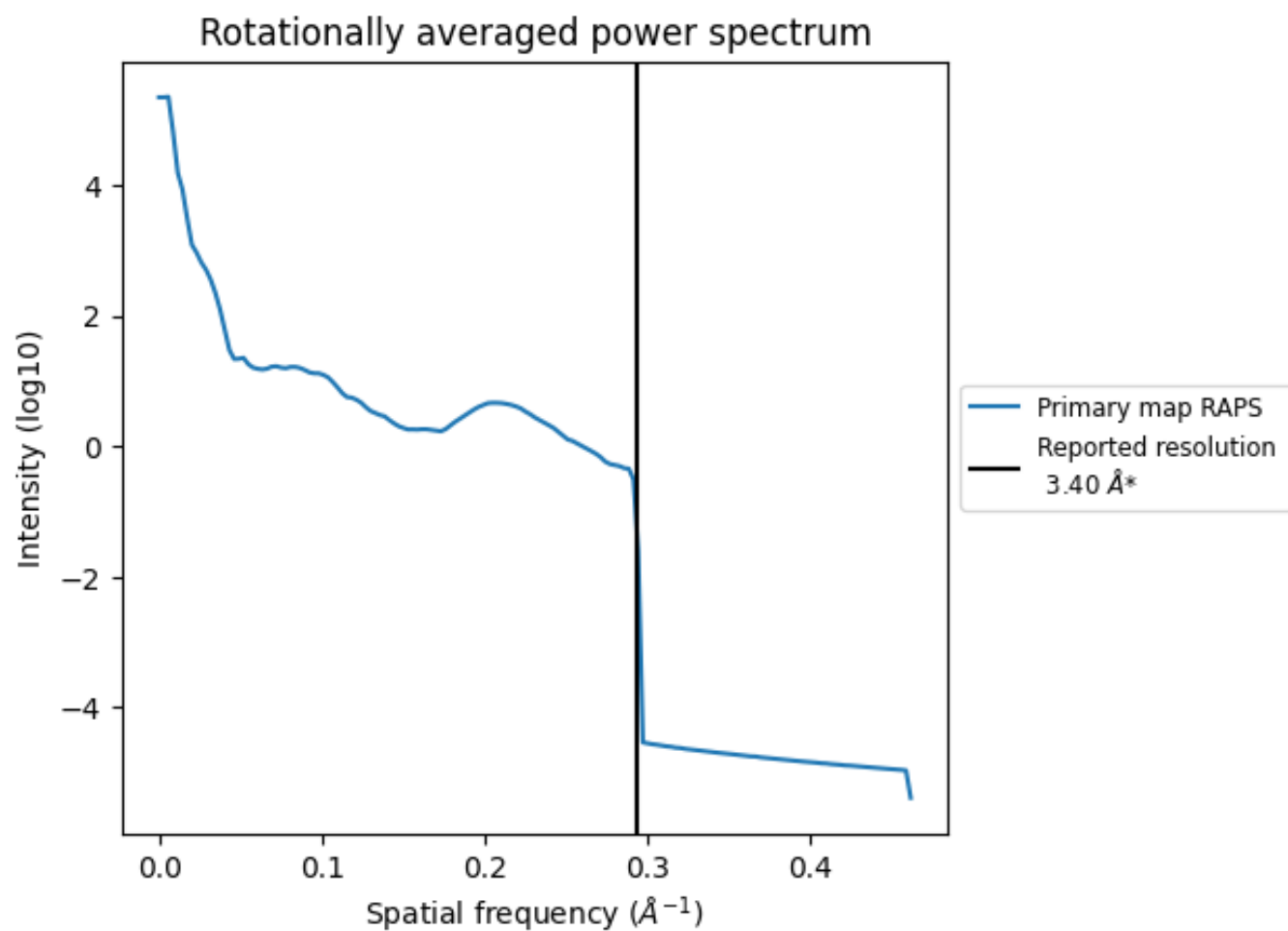
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 57 nm^3 ; this corresponds to an approximate mass of 51 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum ⓘ



*Reported resolution corresponds to spatial frequency of 0.294 Å⁻¹

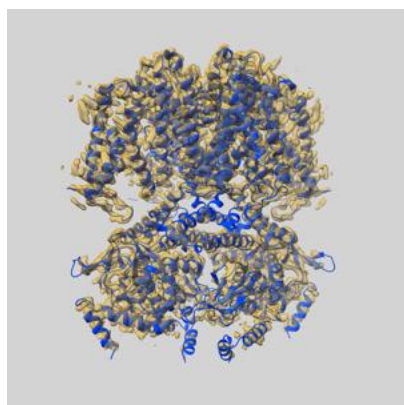
8 Fourier-Shell correlation

This section was not generated. No FSC curve or half-maps provided.

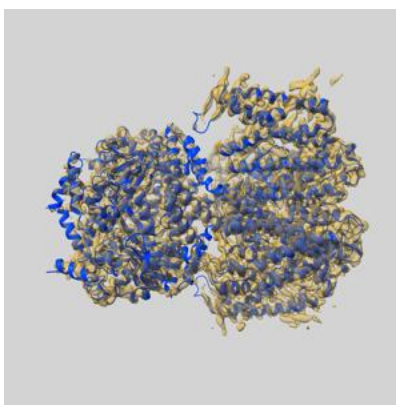
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-32769 and PDB model 7WSW. Per-residue inclusion information can be found in section 3 on page 7.

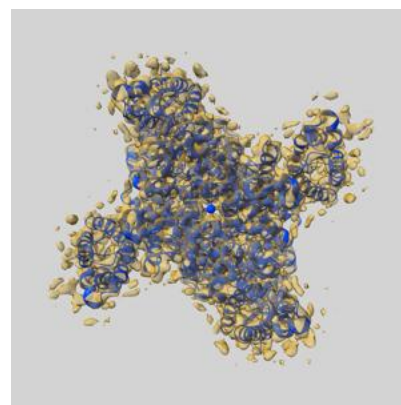
9.1 Map-model overlay [i](#)



X



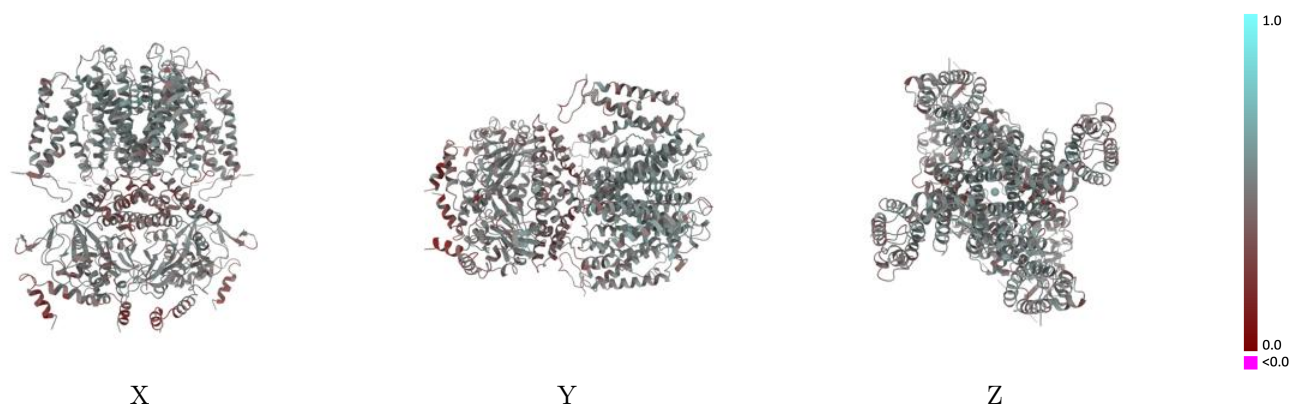
Y



Z

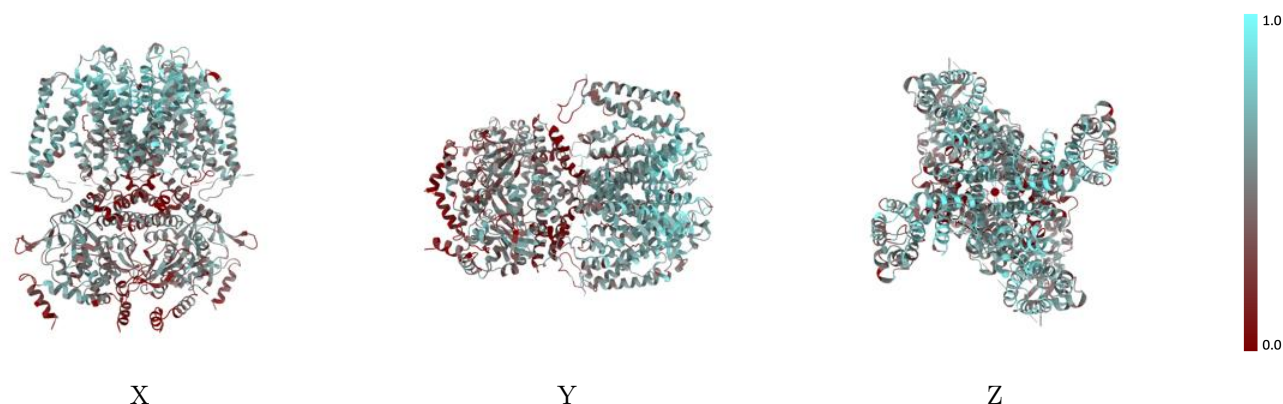
The images above show the 3D surface view of the map at the recommended contour level 0.0188 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model [i](#)



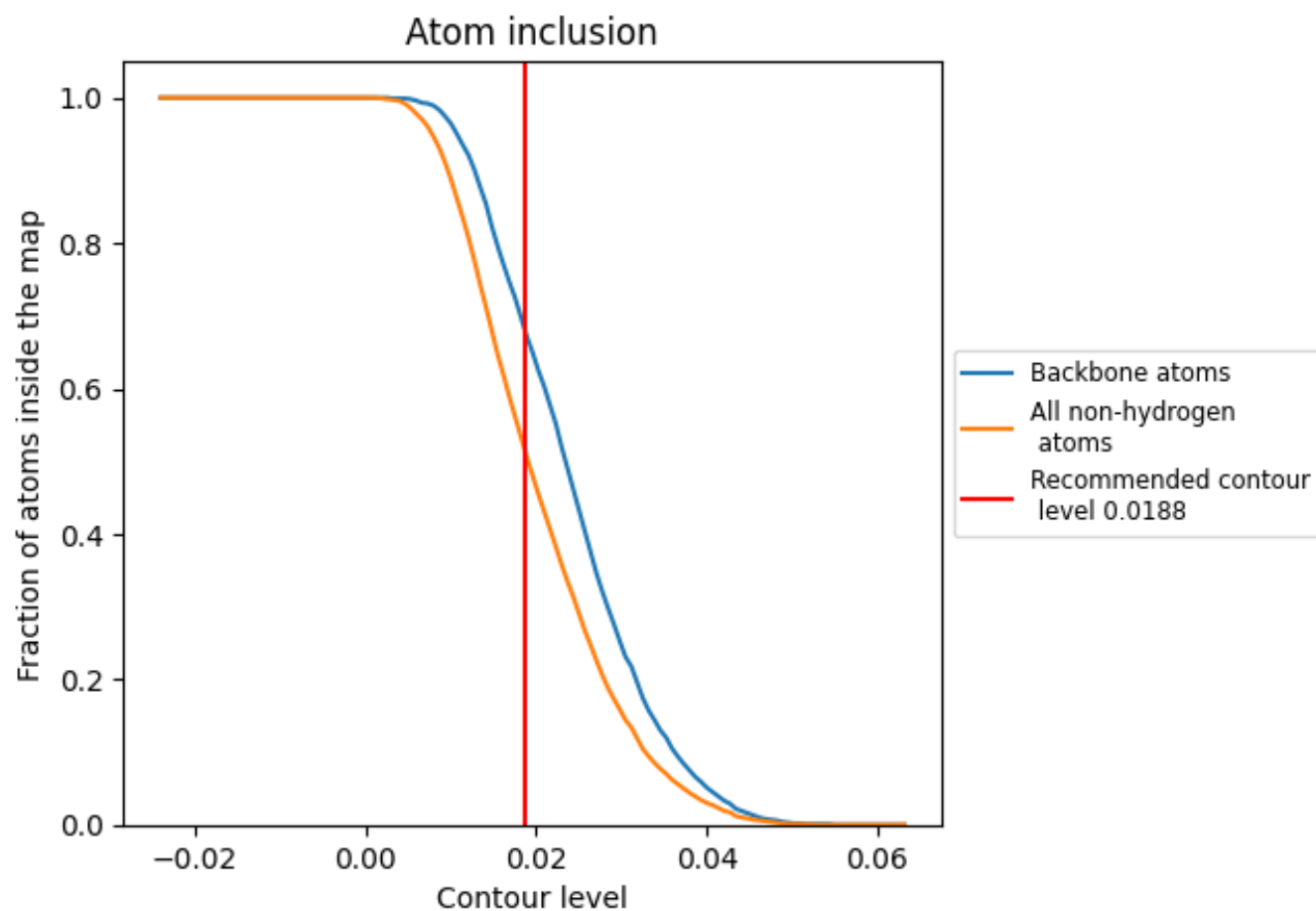
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.0188).

9.4 Atom inclusion [i](#)



At the recommended contour level, 68% of all backbone atoms, 51% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (0.0188) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.5100	0.4650
A	0.4980	0.4660
B	0.5220	0.4630
C	0.4980	0.4670
D	0.5210	0.4620

