



Full wwPDB EM Validation Report ⓘ

Apr 6, 2026 – 12:34 AM UTC

PDB ID : 9M9Q / pdb_00009m9q
EMDB ID : EMD-63737
Title : The structure of THIK1 complexed with halothane
Authors : Dai, Z.; Yin, Y.X.
Deposited on : 2025-03-13
Resolution : 2.92 Å(reported)

This is a Full wwPDB EM 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/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

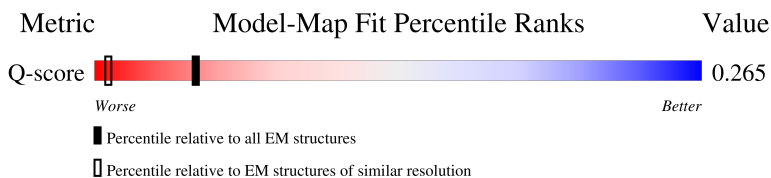
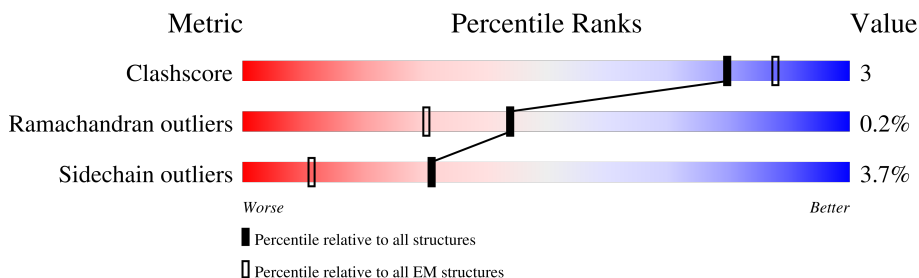
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 2.92 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	13007 (2.42 - 3.42)

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	424	<div> <div>11%</div> <div>50%</div> <div>7%</div> <div>42%</div> </div>
1	B	424	<div> <div>12%</div> <div>52%</div> <div>7%</div> <div>41%</div> </div>

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 3895 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 subfamily K member 13.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	246	Total	C	N	O	S	0	0
			1912	1258	310	331	13		
1	B	251	Total	C	N	O	S	0	0
			1969	1291	320	345	13		

There are 32 discrepancies between the modelled and reference sequences:

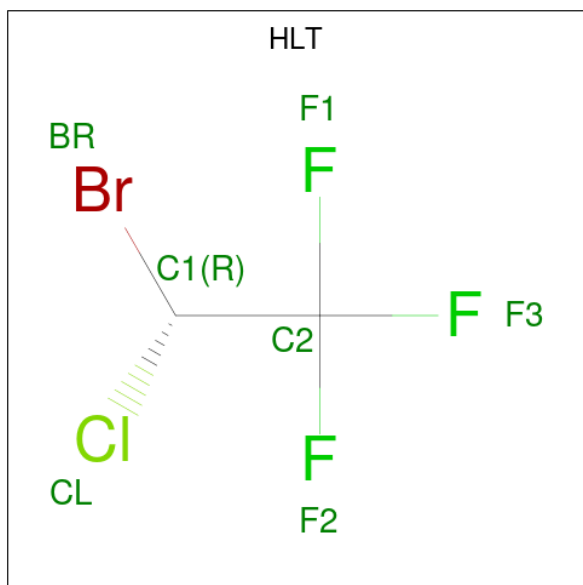
Chain	Residue	Modelled	Actual	Comment	Reference
A	409	LEU	-	expression tag	UNP Q9HB14
A	410	GLU	-	expression tag	UNP Q9HB14
A	411	GLY	-	expression tag	UNP Q9HB14
A	412	GLY	-	expression tag	UNP Q9HB14
A	413	VAL	-	expression tag	UNP Q9HB14
A	414	GLU	-	expression tag	UNP Q9HB14
A	415	GLY	-	expression tag	UNP Q9HB14
A	416	GLY	-	expression tag	UNP Q9HB14
A	417	VAL	-	expression tag	UNP Q9HB14
A	418	GLU	-	expression tag	UNP Q9HB14
A	419	GLU	-	expression tag	UNP Q9HB14
A	420	ASN	-	expression tag	UNP Q9HB14
A	421	LEU	-	expression tag	UNP Q9HB14
A	422	TYR	-	expression tag	UNP Q9HB14
A	423	PHE	-	expression tag	UNP Q9HB14
A	424	GLN	-	expression tag	UNP Q9HB14
B	409	LEU	-	expression tag	UNP Q9HB14
B	410	GLU	-	expression tag	UNP Q9HB14
B	411	GLY	-	expression tag	UNP Q9HB14
B	412	GLY	-	expression tag	UNP Q9HB14
B	413	VAL	-	expression tag	UNP Q9HB14
B	414	GLU	-	expression tag	UNP Q9HB14
B	415	GLY	-	expression tag	UNP Q9HB14
B	416	GLY	-	expression tag	UNP Q9HB14
B	417	VAL	-	expression tag	UNP Q9HB14
B	418	GLU	-	expression tag	UNP Q9HB14

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Chain	Residue	Modelled	Actual	Comment	Reference
B	419	GLU	-	expression tag	UNP Q9HB14
B	420	ASN	-	expression tag	UNP Q9HB14
B	421	LEU	-	expression tag	UNP Q9HB14
B	422	TYR	-	expression tag	UNP Q9HB14
B	423	PHE	-	expression tag	UNP Q9HB14
B	424	GLN	-	expression tag	UNP Q9HB14

- Molecule 2 is 2-BROMO-2-CHLORO-1,1,1-TRIFLUOROETHANE (CCD ID: HLT) (formula: C₂HBrClF₃) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					AltConf
2	A	1	Total	Br	C	Cl	F	0
			7	1	2	1	3	
2	B	1	Total	Br	C	Cl	F	0
			7	1	2	1	3	

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

4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	61286	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	50	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	1600	Depositor
Magnification	Not provided	
Image detector	FEI FALCON IV (4k x 4k)	Depositor
Maximum map value	1.920	Depositor
Minimum map value	-0.027	Depositor
Average map value	0.001	Depositor
Map value standard deviation	0.022	Depositor
Recommended contour level	0.1	Depositor
Map size (Å)	206.848, 206.848, 206.848	wwPDB
Map dimensions	256, 256, 256	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.808, 0.808, 0.808	Depositor

5 Model quality

5.1 Standard geometry

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

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	0.74	0/1957	1.33	7/2653 (0.3%)
1	B	0.68	0/2016	1.24	7/2732 (0.3%)
All	All	0.71	0/3973	1.29	14/5385 (0.3%)

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
1	B	0	2
All	All	0	3

There are no bond length outliers.

All (14) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	235	PHE	CA-CB-CG	7.23	121.03	113.80
1	A	226	ASP	CA-CB-CG	6.99	119.59	112.60
1	B	141	PHE	CA-CB-CG	6.69	120.49	113.80
1	A	235	PHE	CA-CB-CG	6.65	120.45	113.80
1	B	240	PHE	CA-CB-CG	6.27	120.07	113.80
1	B	247	GLN	OE1-CD-NE2	-6.17	116.42	122.60
1	A	237	THR	CA-CB-CG2	5.56	119.96	110.50
1	A	240	PHE	CA-CB-CG	5.50	119.31	113.80
1	B	15	GLU	CA-C-N	5.46	127.54	120.44
1	B	15	GLU	C-N-CA	5.46	127.54	120.44
1	A	92	ARG	NE-CZ-NH2	5.43	124.08	119.20
1	A	89	ASP	CA-CB-CG	5.18	117.78	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	16	ASP	CA-CB-CG	5.04	117.64	112.60
1	A	148	ARG	NE-CZ-NH2	5.00	123.70	119.20

There are no chirality outliers.

All (3) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	30	TYR	Sidechain
1	B	30	TYR	Sidechain
1	B	95	TRP	Peptide

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	1912	0	1894	10	0
1	B	1969	0	1940	13	0
2	A	7	0	0	1	0
2	B	7	0	0	0	0
All	All	3895	0	3834	21	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 3.

All (21) 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:111:ILE:HD11	1:B:269:VAL:HG21	1.79	0.64
1:B:157:MET:HE2	1:B:192:PRO:HG3	1.79	0.63
1:B:220:GLU:OE2	1:B:257:TYR:OH	2.20	0.60
1:A:35:ALA:HA	1:B:104:VAL:HG21	1.86	0.57
1:B:145:PHE:CD1	1:B:270:CYS:HB3	2.39	0.57
1:B:58:ALA:O	1:B:61:SER:OG	2.25	0.52
1:A:145:PHE:CD1	1:A:270:CYS:HB3	2.45	0.51
1:B:104:VAL:O	1:B:108:VAL:HG22	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:46:GLU:HB3	1:B:95:TRP:CD1	2.49	0.48
1:B:254:GLN:OE1	1:B:254:GLN:HA	2.15	0.45
1:A:222:TRP:CZ3	1:A:230:PHE:CD2	3.06	0.44
1:A:212:ALA:HB1	1:A:216:TYR:CE2	2.53	0.44
1:A:215:MET:HG2	1:A:219:ILE:HD12	2.01	0.43
1:B:199:LEU:HD23	1:B:199:LEU:HA	1.91	0.42
1:A:236:SER:HB2	1:A:276:PHE:CE2	2.54	0.42
1:A:115:MET:HB3	2:A:501:HLT:BR	2.75	0.41
1:B:215:MET:HG2	1:B:219:ILE:HD12	2.02	0.41
1:B:235:PHE:HA	1:B:269:VAL:HA	2.03	0.41
1:B:203:THR:O	1:B:206:ILE:HG22	2.21	0.41
1:A:111:ILE:HG21	1:A:113:PHE:CZ	2.56	0.40
1:A:215:MET:HE3	1:A:215:MET:HB3	1.94	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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	242/424 (57%)	228 (94%)	13 (5%)	1 (0%)	30	58
1	B	247/424 (58%)	237 (96%)	10 (4%)	0	100	100
All	All	489/848 (58%)	465 (95%)	23 (5%)	1 (0%)	44	71

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	88	VAL

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 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	198/350 (57%)	188 (95%)	10 (5%)	21	51
1	B	206/350 (59%)	201 (98%)	5 (2%)	43	73
All	All	404/700 (58%)	389 (96%)	15 (4%)	31	63

All (15) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	38	PHE
1	A	42	GLU
1	A	71	LEU
1	A	106	THR
1	A	116	THR
1	A	198	MET
1	A	226	ASP
1	A	228	LEU
1	A	237	THR
1	A	251	TYR
1	B	43	LEU
1	B	127	LEU
1	B	132	LEU
1	B	201	LEU
1	B	228	LEU

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	250	HIS
1	A	261	ASN
1	B	248	ASN
1	B	250	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 ⓘ

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	$\# Z > 2$
2	HLT	B	501	-	4,6,6	0.53	0	3,9,9	0.47	0
2	HLT	A	501	-	4,6,6	0.43	0	3,9,9	0.24	0

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	HLT	B	501	-	-	0/3/6/6	-
2	HLT	A	501	-	-	3/3/6/6	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (3) torsion outliers are listed below:

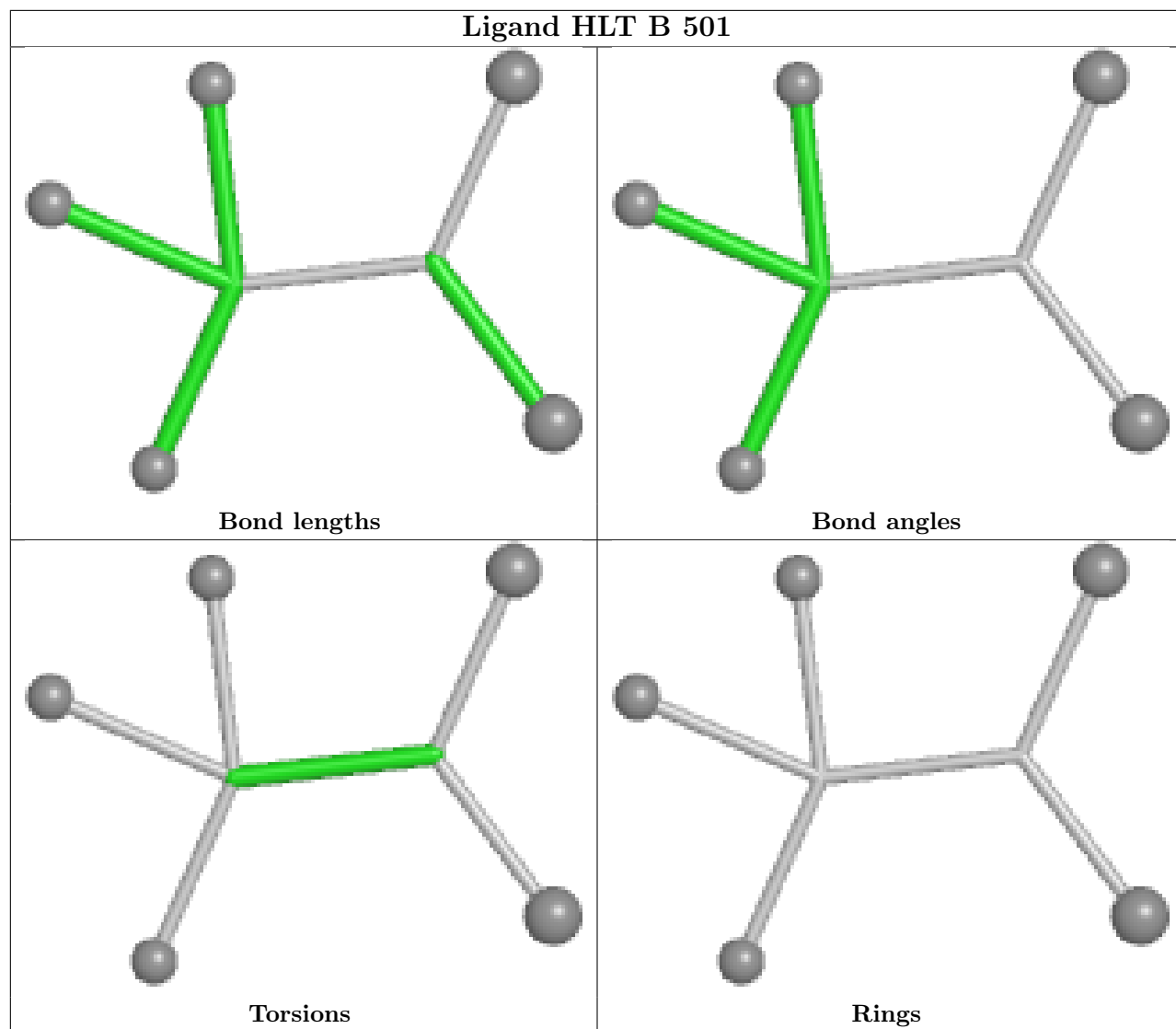
Mol	Chain	Res	Type	Atoms
2	A	501	HLT	CL-C1-C2-F1
2	A	501	HLT	CL-C1-C2-F2
2	A	501	HLT	CL-C1-C2-F3

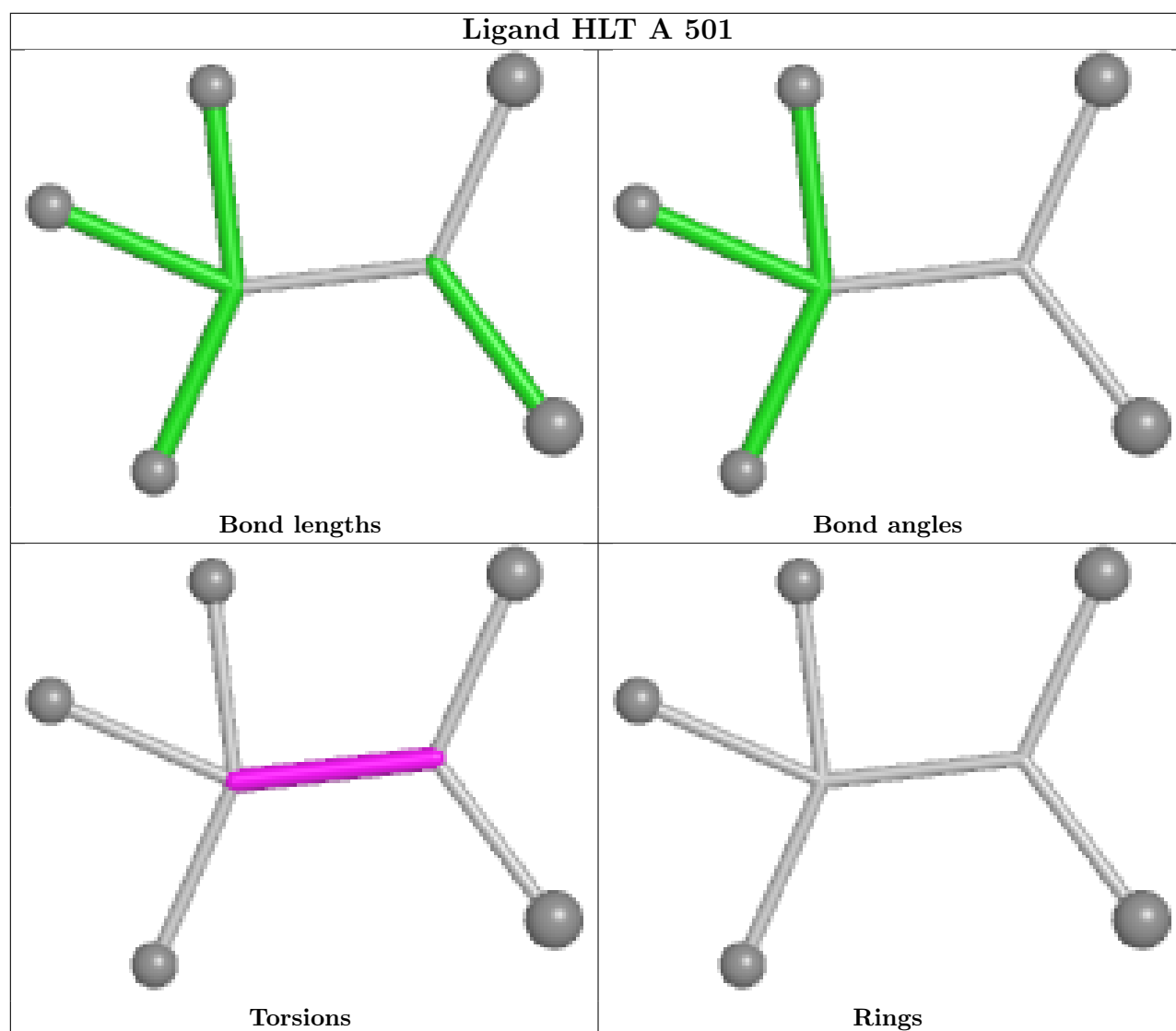
There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	501	HLT	1	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.

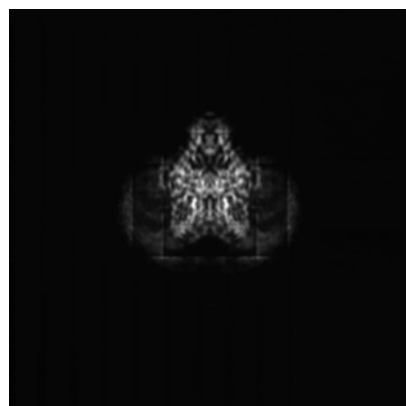
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-63737. These allow visual inspection of the internal detail of the map and identification of artifacts.

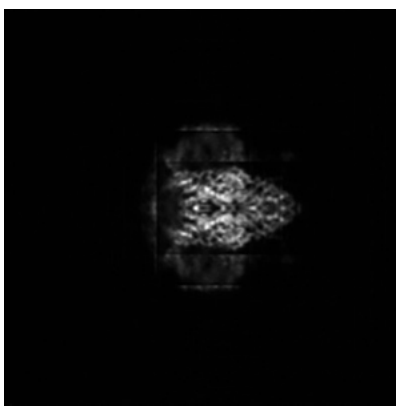
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

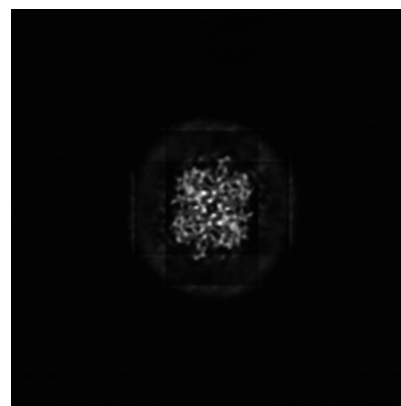
6.1.1 Primary map



X

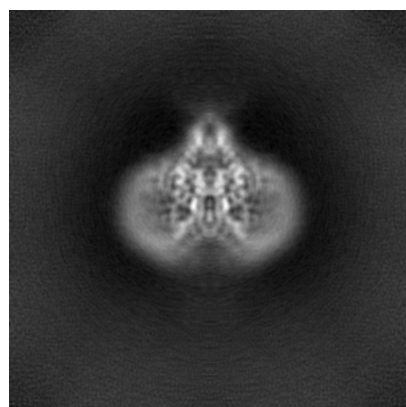


Y

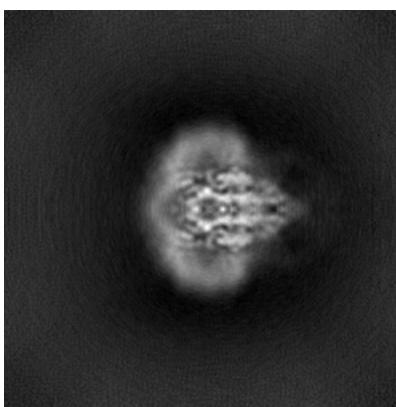


Z

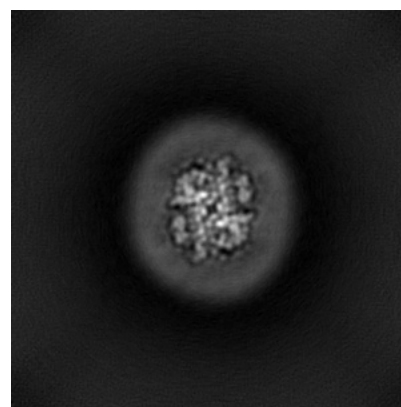
6.1.2 Raw map



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: 128

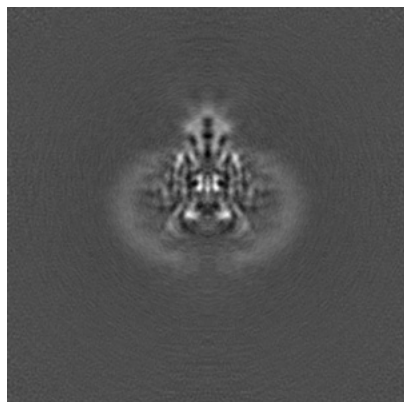


Y Index: 128

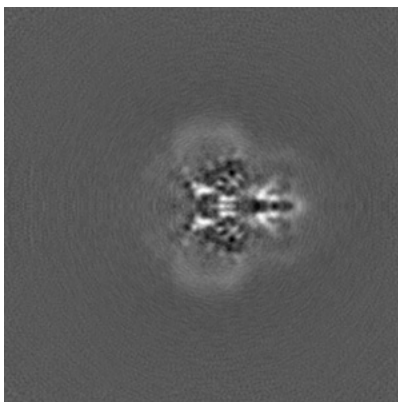


Z Index: 128

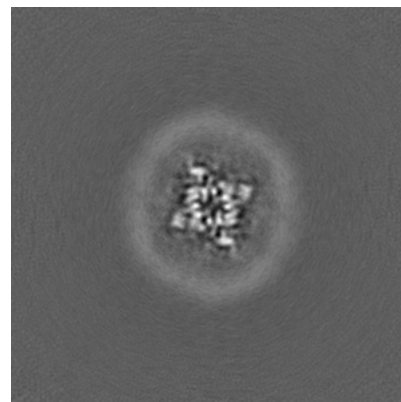
6.2.2 Raw map



X Index: 128



Y Index: 128



Z Index: 128

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: 122

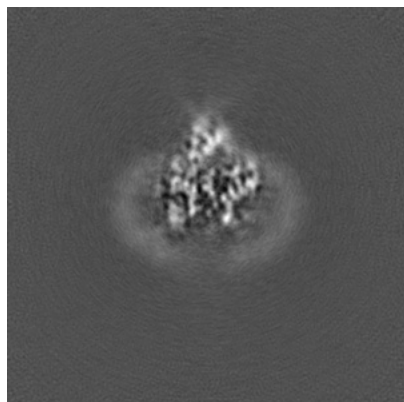


Y Index: 118

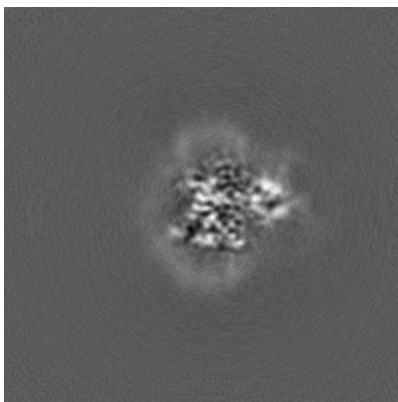


Z Index: 150

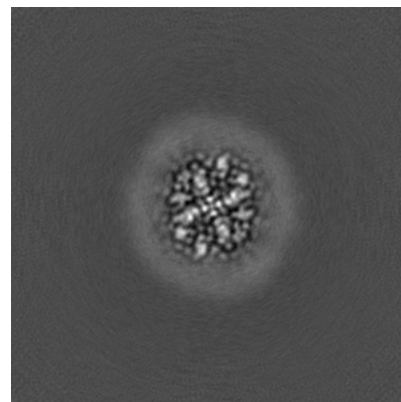
6.3.2 Raw map



X Index: 134



Y Index: 118

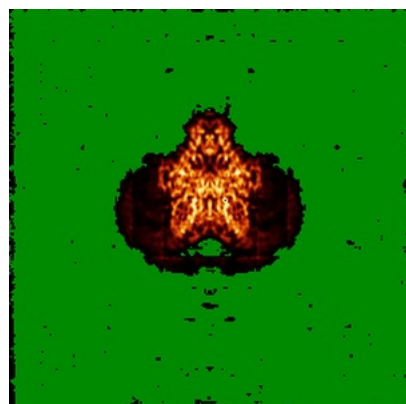


Z Index: 142

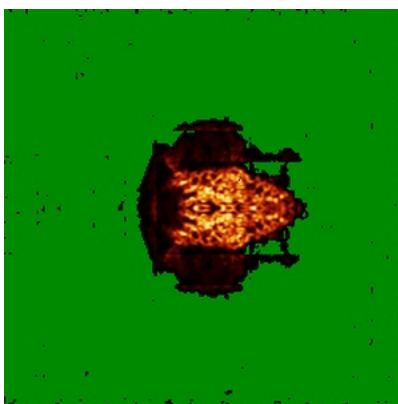
The images above show the largest variance slices of the map in three orthogonal directions.

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

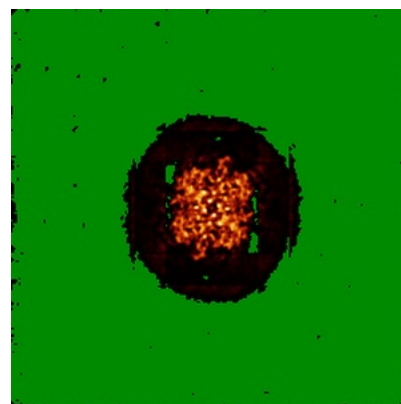
6.4.1 Primary map



X

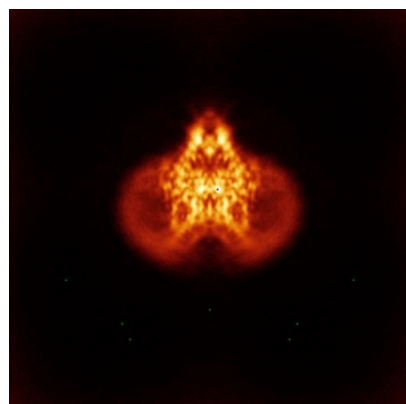


Y

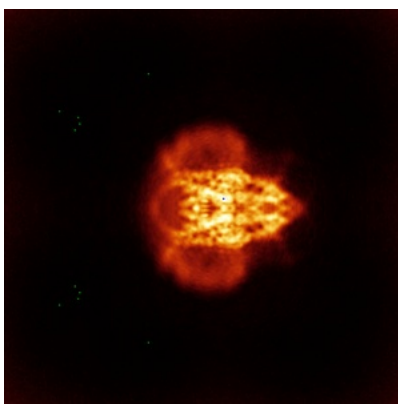


Z

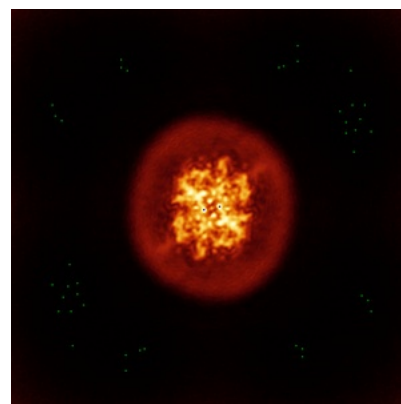
6.4.2 Raw map



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



The images above show the 3D surface view of the map at the recommended contour level 0.1. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

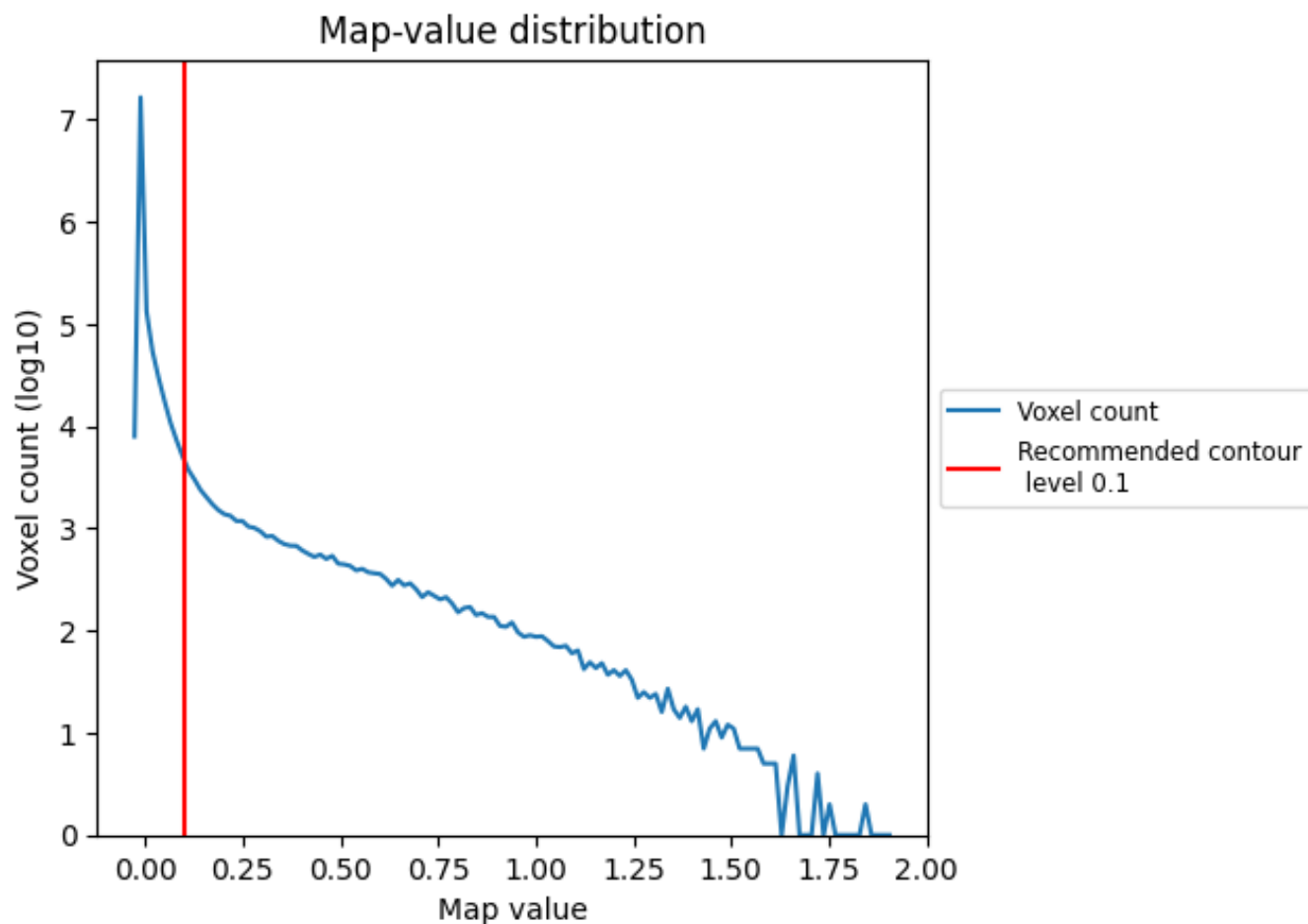
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

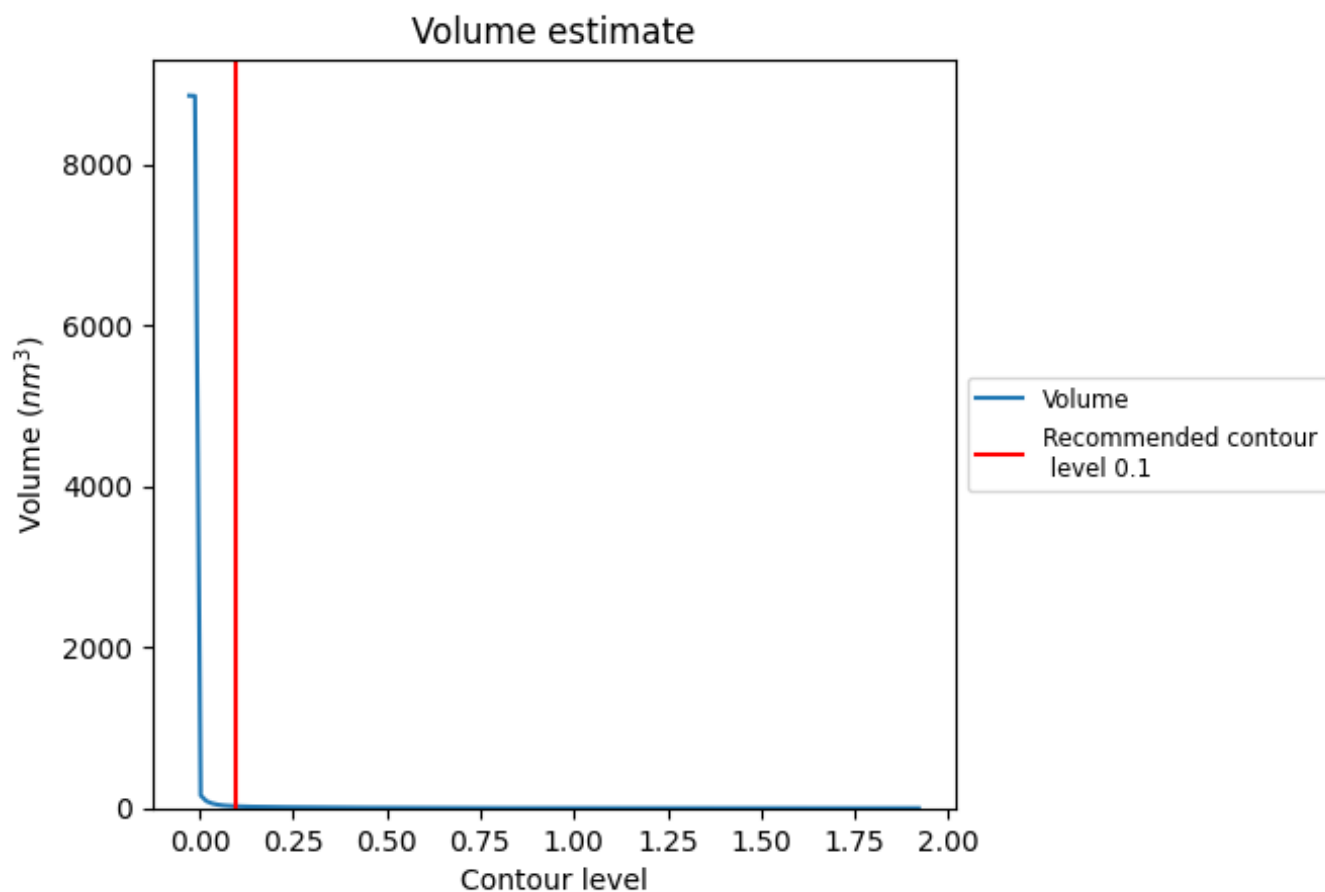
This section contains the results of statistical analysis of the map.

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.

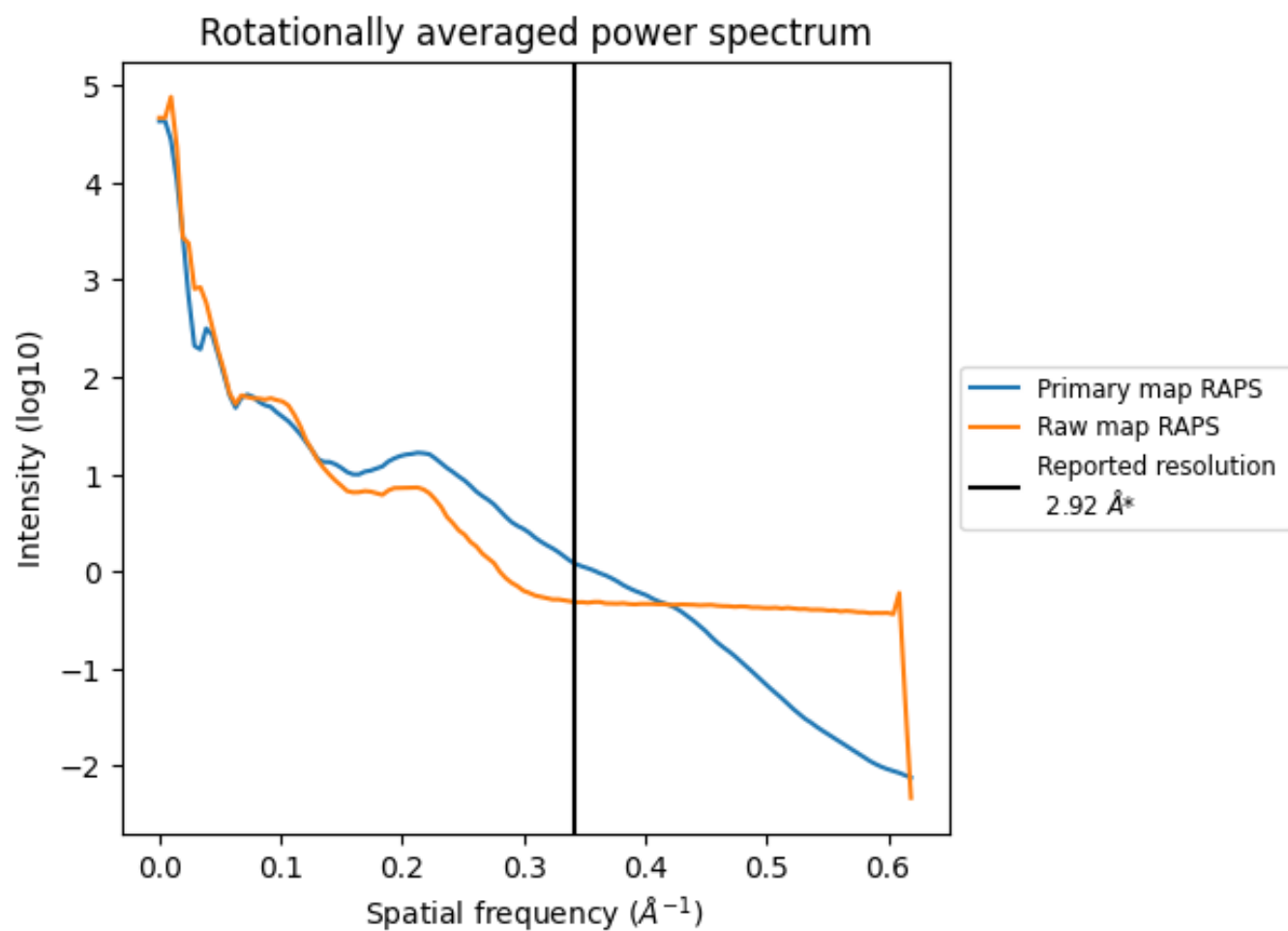
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 23 nm^3 ; this corresponds to an approximate mass of 21 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 [i](#)

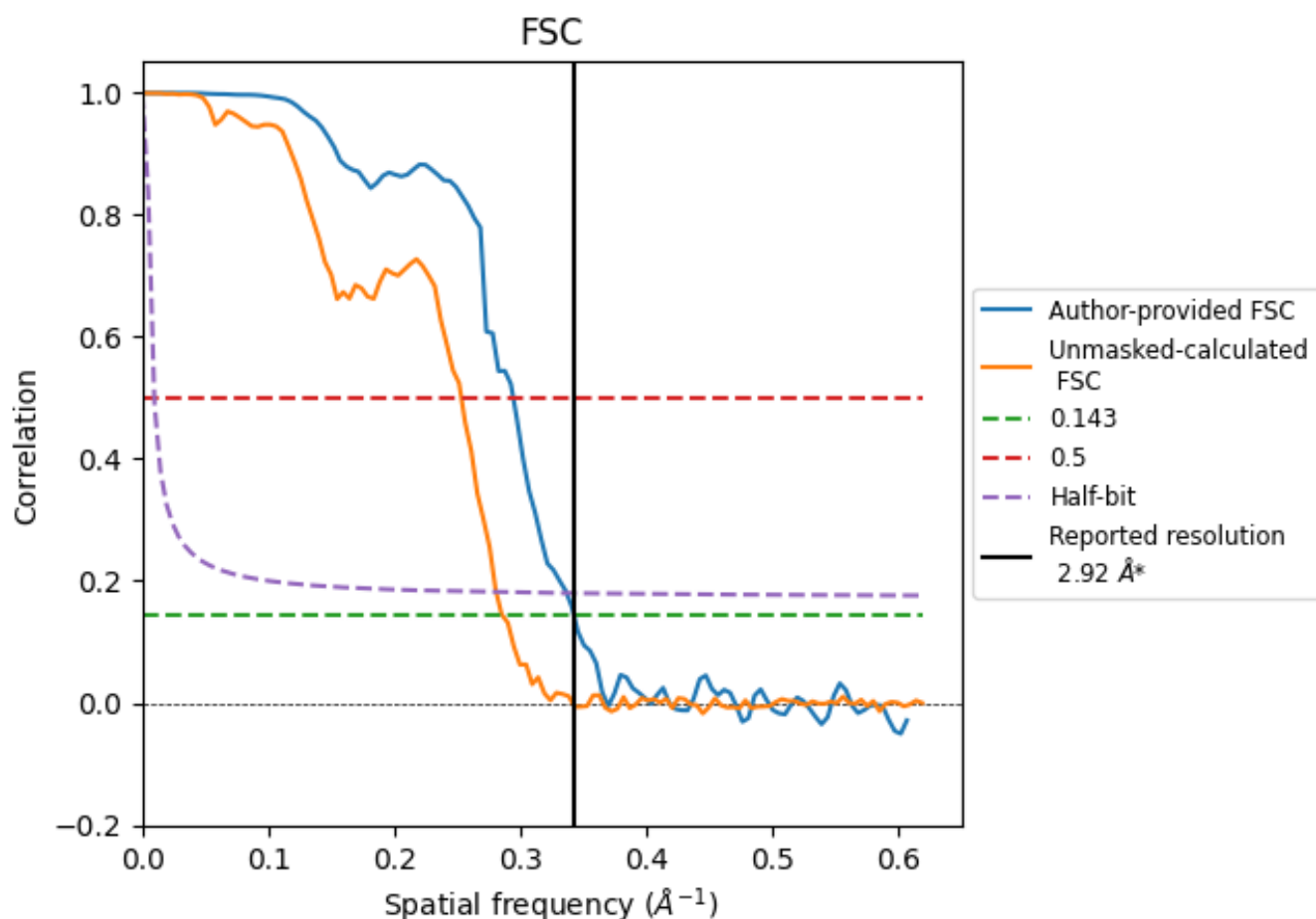


*Reported resolution corresponds to spatial frequency of 0.342 \AA^{-1}

8 Fourier-Shell correlation [i](#)

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.342 \AA^{-1}

8.2 Resolution estimates [i](#)

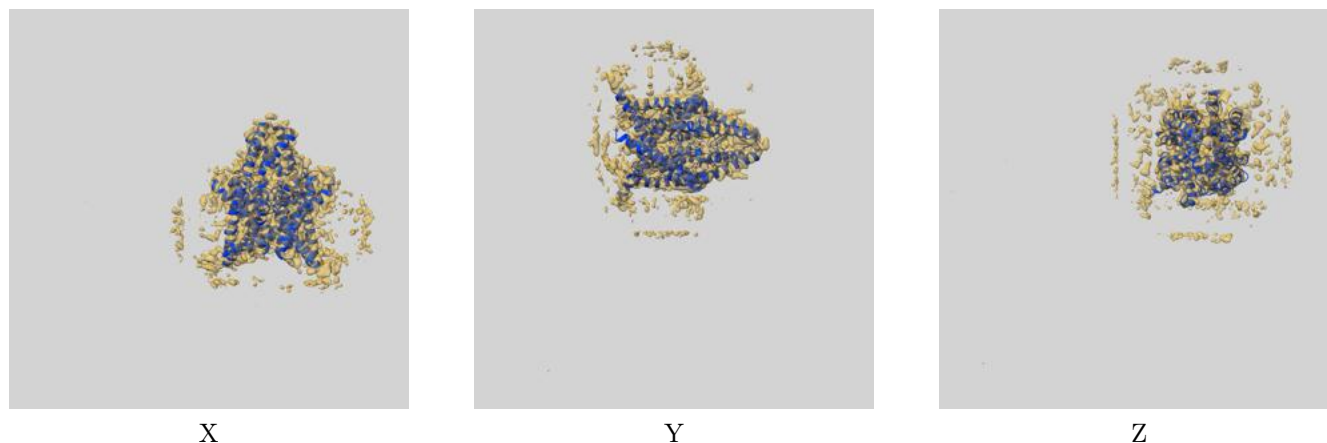
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	2.92	-	-
Author-provided FSC curve	2.92	3.40	2.97
Unmasked-calculated*	3.50	3.95	3.56

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 3.50 differs from the reported value 2.92 by more than 10 %

9 Map-model fit [i](#)

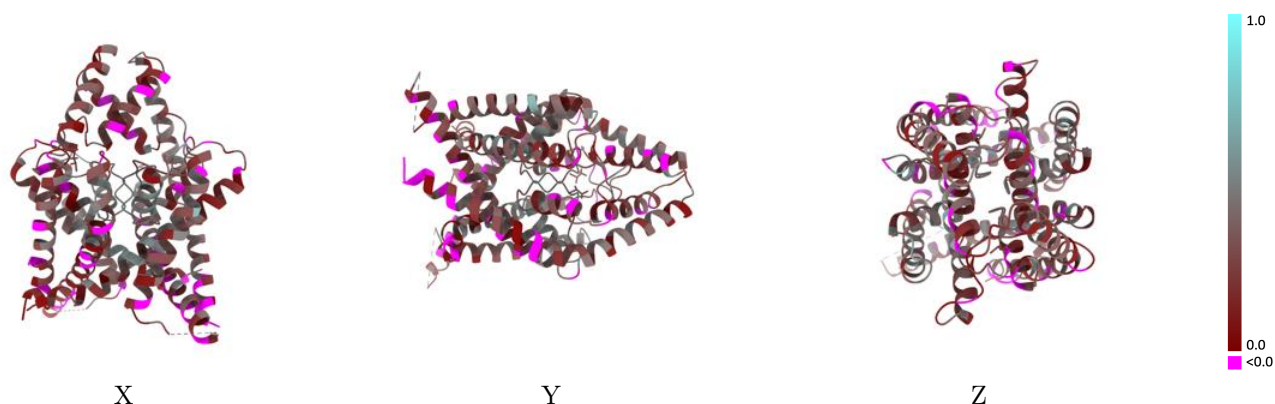
This section contains information regarding the fit between EMDB map EMD-63737 and PDB model 9M9Q. Per-residue inclusion information can be found in [section 3](#) on [page 5](#).

9.1 Map-model overlay [i](#)



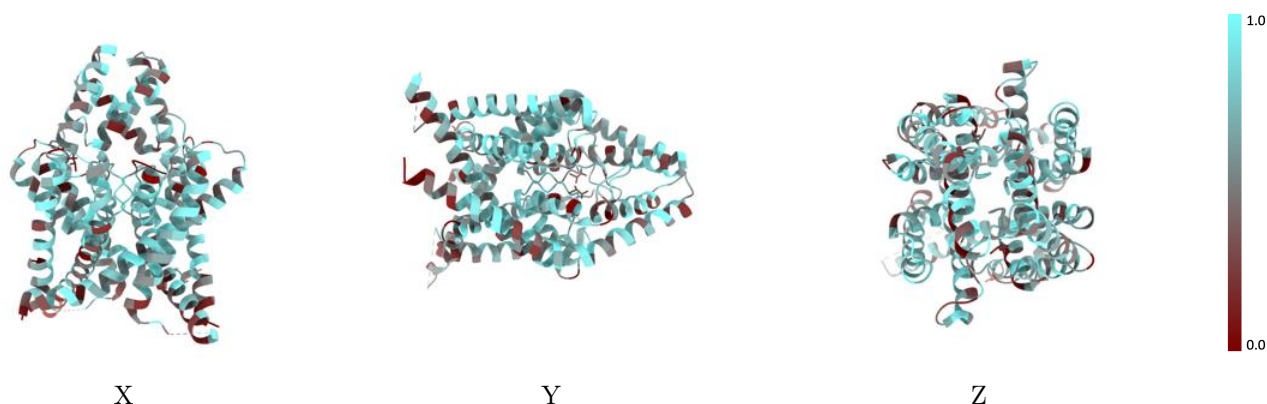
The images above show the 3D surface view of the map at the recommended contour level 0.1 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



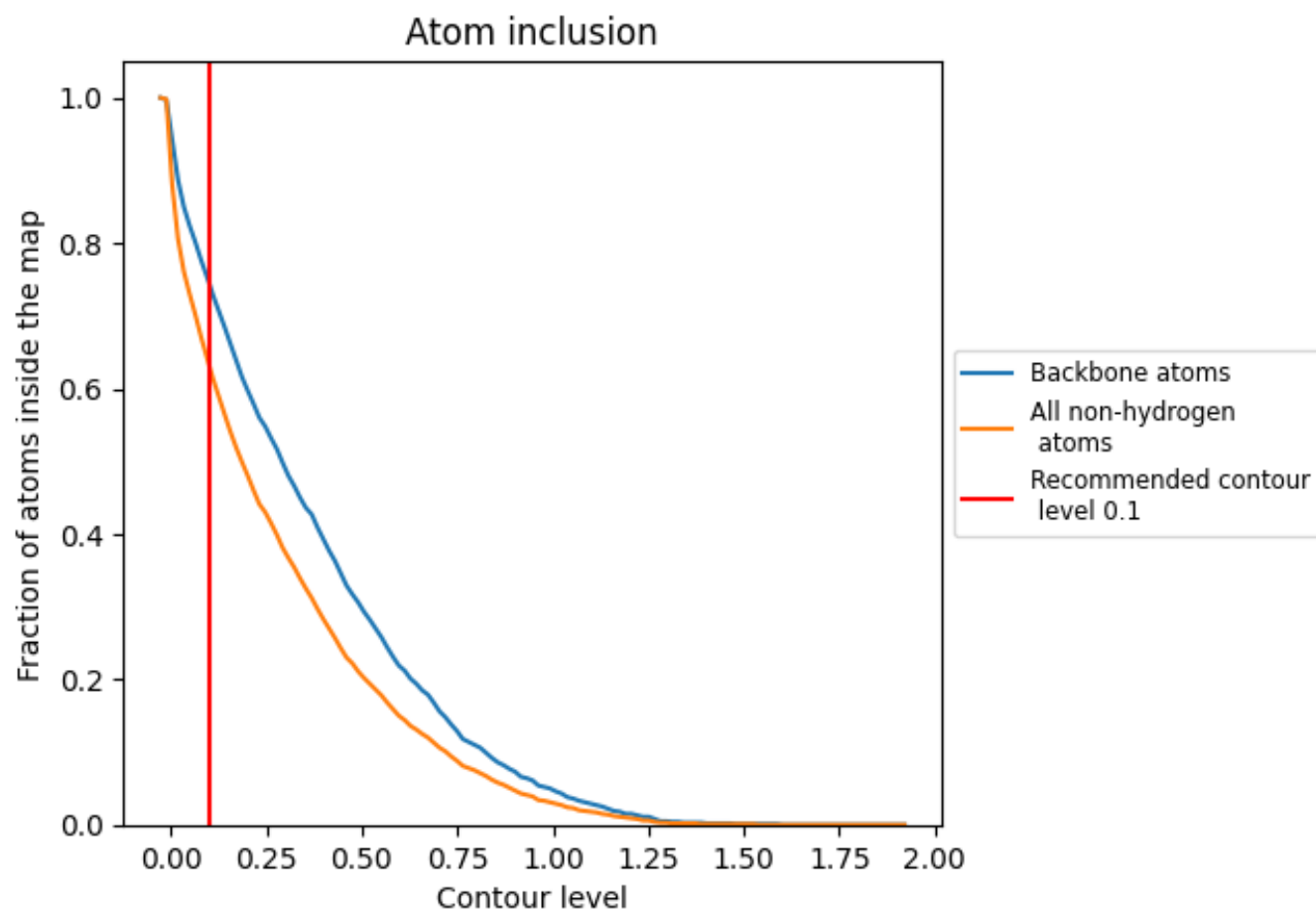
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.1).

9.4 Atom inclusion [i](#)



At the recommended contour level, 75% of all backbone atoms, 63% 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 (0.1) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	<div></div> 0.6330	<div></div> 0.2650
A	<div></div> 0.6420	<div></div> 0.2680
B	<div></div> 0.6250	<div></div> 0.2630

