



## wwPDB EM Validation Summary Report ⓘ

Nov 4, 2024 – 06:52 AM JST

PDB ID : 7WI8  
EMDB ID : EMD-32527  
Title : Cryo-EM structure of inactive mGlu3 bound to LY341495  
Authors : Fang, W.; Yang, F.; Xu, C.J.; Ling, S.L.; Lin, L.; Zhou, Y.X.; Sun, W.J.;  
Wang, X.M.; Liu, P.; Rondard, P.; Pan, S.; Pin, J.P.; Tian, C.L.; Liu, J.F.  
Deposited on : 2022-01-03  
Resolution : 4.17 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](mailto: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>.

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The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

EMDB validation analysis : 0.0.1.dev113  
Mogul : 1.8.5 (274361), CSD as541be (2020)  
MolProbity : 4.02b-467  
buster-report : 1.1.7 (2018)  
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)  
MapQ : 1.9.13  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.39

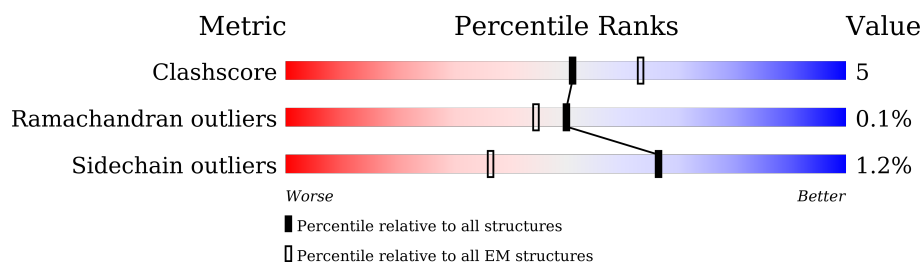
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*ELECTRON MICROSCOPY*

The reported resolution of this entry is 4.17 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)
Clashscore	210492	15764
Ramachandran outliers	207382	16835
Sidechain outliers	206894	16415

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  $\geq 3$ , 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	887	 7% 73% 9% 18%
1	B	887	 7% 73% 9% 18%

## 2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 9268 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 Metabotropic glutamate receptor 3.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	723	Total	C	N	O	S	0	0
			4594	2914	798	857	25		
1	B	723	Total	C	N	O	S	0	0
			4594	2914	798	857	25		

There are 60 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-7	MET	-	initiating methionine	UNP Q14832
A	-6	LYS	-	expression tag	UNP Q14832
A	-5	THR	-	expression tag	UNP Q14832
A	-4	ILE	-	expression tag	UNP Q14832
A	-3	ILE	-	expression tag	UNP Q14832
A	-2	ALA	-	expression tag	UNP Q14832
A	-1	LEU	-	expression tag	UNP Q14832
A	0	SER	-	expression tag	UNP Q14832
A	1	TYR	-	expression tag	UNP Q14832
A	2	ILE	-	expression tag	UNP Q14832
A	3	PHE	-	expression tag	UNP Q14832
A	4	CYS	-	expression tag	UNP Q14832
A	5	LEU	-	expression tag	UNP Q14832
A	6	VAL	-	expression tag	UNP Q14832
A	7	PHE	-	expression tag	UNP Q14832
A	8	ALA	-	expression tag	UNP Q14832
A	9	ASP	-	expression tag	UNP Q14832
A	10	TYR	-	expression tag	UNP Q14832
A	11	LYS	-	expression tag	UNP Q14832
A	12	ASP	-	expression tag	UNP Q14832
A	13	ASP	-	expression tag	UNP Q14832
A	14	ASP	-	expression tag	UNP Q14832
A	15	ASP	-	expression tag	UNP Q14832
A	16	GLU	-	expression tag	UNP Q14832
A	17	ASN	-	expression tag	UNP Q14832
A	18	LEU	-	expression tag	UNP Q14832

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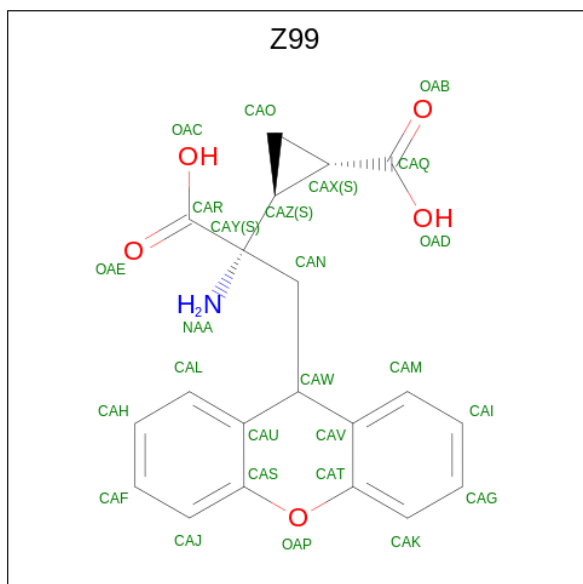
Chain	Residue	Modelled	Actual	Comment	Reference
A	19	TYR	-	expression tag	UNP Q14832
A	20	PHE	-	expression tag	UNP Q14832
A	21	GLN	-	expression tag	UNP Q14832
A	22	GLY	-	expression tag	UNP Q14832
B	-7	MET	-	initiating methionine	UNP Q14832
B	-6	LYS	-	expression tag	UNP Q14832
B	-5	THR	-	expression tag	UNP Q14832
B	-4	ILE	-	expression tag	UNP Q14832
B	-3	ILE	-	expression tag	UNP Q14832
B	-2	ALA	-	expression tag	UNP Q14832
B	-1	LEU	-	expression tag	UNP Q14832
B	0	SER	-	expression tag	UNP Q14832
B	1	TYR	-	expression tag	UNP Q14832
B	2	ILE	-	expression tag	UNP Q14832
B	3	PHE	-	expression tag	UNP Q14832
B	4	CYS	-	expression tag	UNP Q14832
B	5	LEU	-	expression tag	UNP Q14832
B	6	VAL	-	expression tag	UNP Q14832
B	7	PHE	-	expression tag	UNP Q14832
B	8	ALA	-	expression tag	UNP Q14832
B	9	ASP	-	expression tag	UNP Q14832
B	10	TYR	-	expression tag	UNP Q14832
B	11	LYS	-	expression tag	UNP Q14832
B	12	ASP	-	expression tag	UNP Q14832
B	13	ASP	-	expression tag	UNP Q14832
B	14	ASP	-	expression tag	UNP Q14832
B	15	ASP	-	expression tag	UNP Q14832
B	16	GLU	-	expression tag	UNP Q14832
B	17	ASN	-	expression tag	UNP Q14832
B	18	LEU	-	expression tag	UNP Q14832
B	19	TYR	-	expression tag	UNP Q14832
B	20	PHE	-	expression tag	UNP Q14832
B	21	GLN	-	expression tag	UNP Q14832
B	22	GLY	-	expression tag	UNP Q14832

- Molecule 2 is 2-acetamido-2-deoxy-beta-D-glucopyranose (three-letter code: NAG) (formula: C<sub>8</sub>H<sub>15</sub>NO<sub>6</sub>) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				AltConf
2	A	1	Total	C	N	O	0
			14	8	1	5	
2	B	1	Total	C	N	O	0
			14	8	1	5	

- Molecule 3 is 2-[(1S,2S)-2-carboxycyclopropyl]-3-(9H-xanthen-9-yl)-D-alanine (three-letter code: Z99) (formula: C<sub>20</sub>H<sub>19</sub>NO<sub>5</sub>) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				AltConf
3	A	1	Total	C	N	O	0
			26	20	1	5	

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Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
3	B	1	26	20	1	5	0



THR	HIS	ARG	LEU	HIS	LEU	ASN	ARG	PHE	SER	VAL	SER	GLY	THR	GLY	THR	THR	TYR	SER	GLN	SER	SER	SER	ALA	SER	THR	THR	TYR	VAL	PRO	THR	VAL	CYS	ASN	GLY	ARG	GLU	VAL	LEU	ASP	SER	THR	THR	SER	SER	LEU								
I700	V701	M702	V703	S704	V705	M706	L707	I708	I709	E710	A711	P712	G713	I714	R715	K729	C730	S740	L741	T742	Y743	D744	I749	L750	C751	Y754	K757	T758	R759	K760	L783	G811	F812	V813	V814	L815	G816	C817	V823	HIS	ILE	ILE	LEU	PHE	GLN	PRO	GLN	LYS	ASN	VAL			
L614	C615	Y616	I617	L618	L619	F620	G621	V622	G623	P638	V639	I640	R644	R645	L646	G647	L648	F652	A653	I654	C655	Y656	S657	L660	R668	ILE	PHE	ASP	GLY	VAL	LYS	ASN	GLY	ALA	GLN	ARG	PRO	LYS	PHE	ILE	SER	PRO	SER	SER	Q688	C692	L693	G694	L695	I696	L697	V698	Q699
ASN	ILE	ARG	LYS	S255	S258	N268	R277	S278	D279	R282	S300	D301	S308	S313	V316	Q328	P329	L363	GLN	ASN	LYS	ARG	ASN	HIS	ARG	ARG	VAL	CYS	ASP	LYS	HIS	L377	V394	T416	Y431	A442	K448	D449	S452	D461	M470												
Y480	L481	H498	Q508	C513	G524	D525	E538	Y539	L540	A541	C546	M547	D548	C549	P555	L559	T560	G561	C562	Y563	P566	E573	D574	A575	M576	A577	T582	I583	A584	C585	F588	M589	C590	T591	C592	V595	T596	V597	H601	S610	G611	R612	E613										



## 4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	134705	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 ( $e^-/\text{\AA}^2$ )	57.6	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	0.570	Depositor
Minimum map value	-0.308	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.014	Depositor
Recommended contour level	0.1	Depositor
Map size ( $\text{\AA}$ )	323.2, 323.2, 323.2	wwPDB
Map dimensions	320, 320, 320	wwPDB
Map angles ( $^\circ$ )	90.0, 90.0, 90.0	wwPDB
Pixel spacing ( $\text{\AA}$ )	1.01, 1.01, 1.01	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: NAG, Z99

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	0.39	0/4675	0.57	0/6443
1	B	0.39	0/4675	0.57	0/6443
All	All	0.39	0/9350	0.57	0/12886

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	4594	0	3667	44	0
1	B	4594	0	3667	45	0
2	A	14	0	13	1	0
2	B	14	0	13	0	0
3	A	26	0	17	2	0
3	B	26	0	17	1	0
All	All	9268	0	7394	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 5.

The worst 5 of 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)
1:B:255:SER:N	1:B:258:SER:HG	1.76	0.83
1:A:255:SER:N	1:A:258:SER:HG	1.78	0.82
1:B:555:PRO:HA	1:B:562:CYS:HB2	1.76	0.68
1:A:555:PRO:HA	1:A:562:CYS:HB2	1.76	0.68
1:B:155:ILE:HG23	1:B:156:GLN:HE21	1.65	0.61

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	711/887 (80%)	609 (86%)	101 (14%)	1 (0%)	48	82
1	B	711/887 (80%)	609 (86%)	101 (14%)	1 (0%)	48	82
All	All	1422/1774 (80%)	1218 (86%)	202 (14%)	2 (0%)	50	82

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	729	LYS
1	B	729	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 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	327/775 (42%)	323 (99%)	4 (1%)	67	78
1	B	327/775 (42%)	323 (99%)	4 (1%)	67	78
All	All	654/1550 (42%)	646 (99%)	8 (1%)	66	78

5 of 8 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	549	CYS
1	B	480	TYR
1	B	240	CYS
1	A	549	CYS
1	B	416	THR

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	156	GLN
1	B	156	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](#)

4 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	NAG	B	901	1	14,14,15	0.69	0	17,19,21	0.48	0
3	Z99	B	902	-	26,29,29	2.21	3 (11%)	36,44,44	1.74	9 (25%)
3	Z99	A	902	-	26,29,29	2.21	3 (11%)	36,44,44	1.73	9 (25%)
2	NAG	A	901	1	14,14,15	0.69	0	17,19,21	0.48	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	NAG	B	901	1	-	1/6/23/26	0/1/1/1
3	Z99	B	902	-	-	10/15/38/38	0/4/4/4
3	Z99	A	902	-	-	10/15/38/38	0/4/4/4
2	NAG	A	901	1	-	1/6/23/26	0/1/1/1

The worst 5 of 6 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	902	Z99	OAP-CAS	6.71	1.49	1.38
3	A	902	Z99	OAP-CAS	6.67	1.48	1.38
3	A	902	Z99	OAP-CAT	6.58	1.48	1.38
3	B	902	Z99	OAP-CAT	6.53	1.48	1.38
3	B	902	Z99	CAN-CAW	4.68	1.61	1.54

The worst 5 of 18 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	B	902	Z99	CAO-CAZ-CAY	-5.07	114.26	122.00
3	A	902	Z99	CAO-CAZ-CAY	-5.04	114.31	122.00
3	B	902	Z99	OAP-CAS-CAU	-3.39	117.71	122.38
3	A	902	Z99	OAP-CAS-CAU	-3.37	117.74	122.38
3	A	902	Z99	CAO-CAX-CAQ	-3.03	114.06	119.10

There are no chirality outliers.

5 of 22 torsion outliers are listed below:

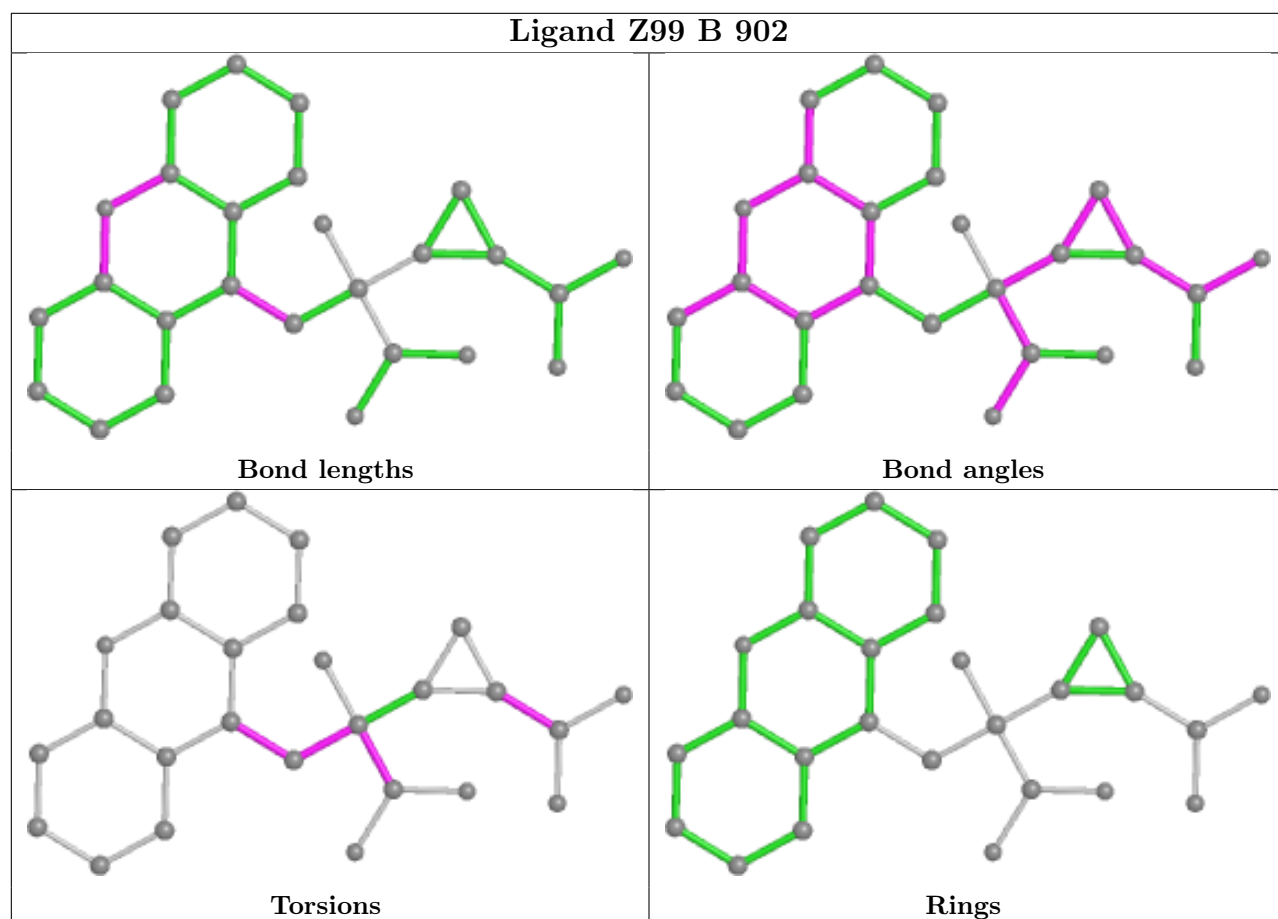
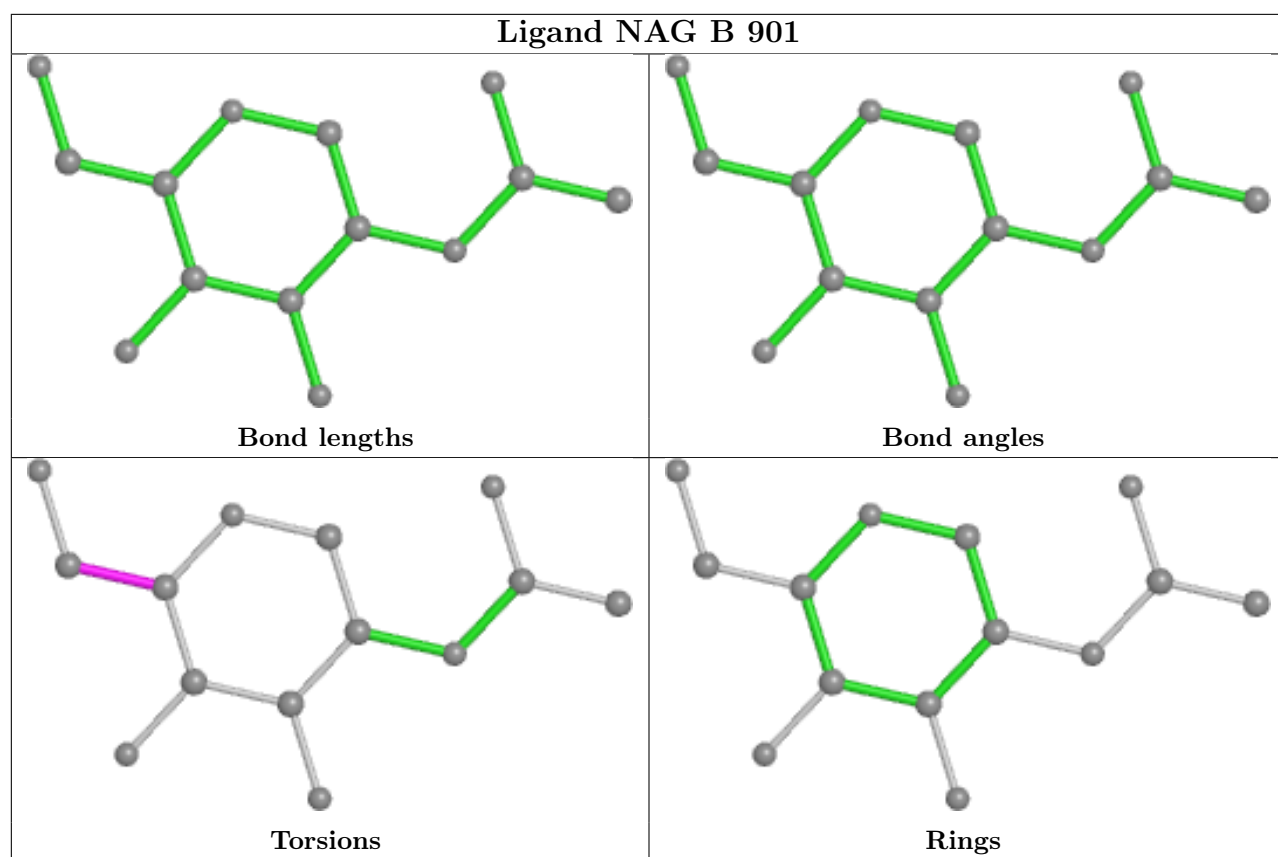
Mol	Chain	Res	Type	Atoms
3	A	902	Z99	CAW-CAN-CAY-NAA
3	A	902	Z99	CAW-CAN-CAY-CAR
3	A	902	Z99	CAW-CAN-CAY-CAZ
3	A	902	Z99	OAB-CAQ-CAX-CAO
3	A	902	Z99	OAD-CAQ-CAX-CAO

There are no ring outliers.

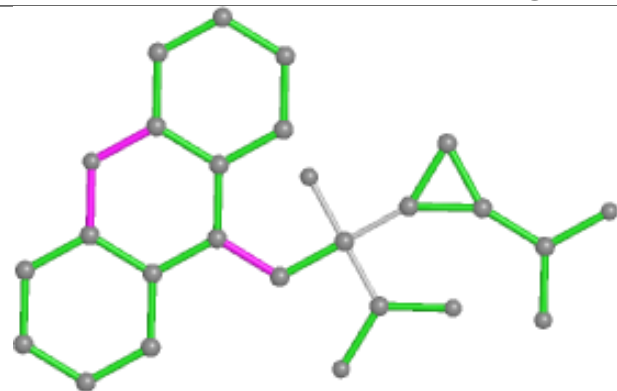
3 monomers are involved in 4 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	B	902	Z99	1	0
3	A	902	Z99	2	0
2	A	901	NAG	1	0

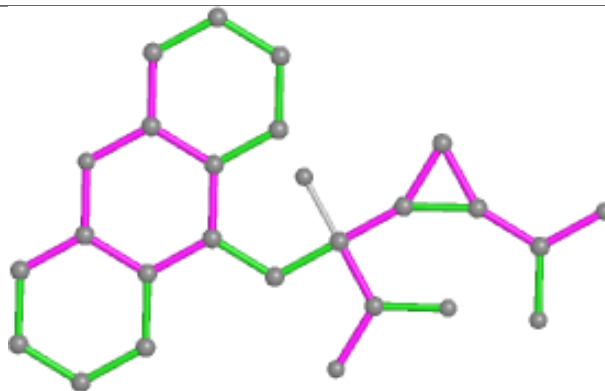
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. 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.



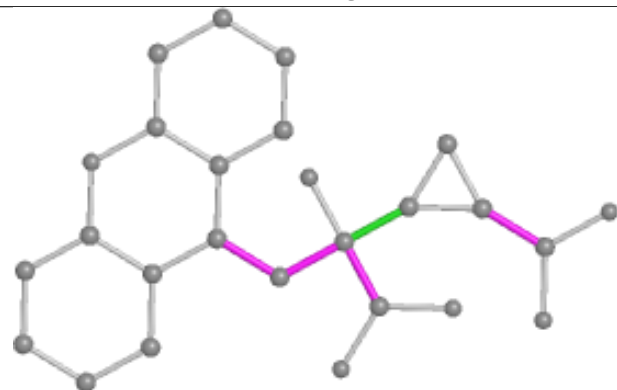
## Ligand Z99 A 902



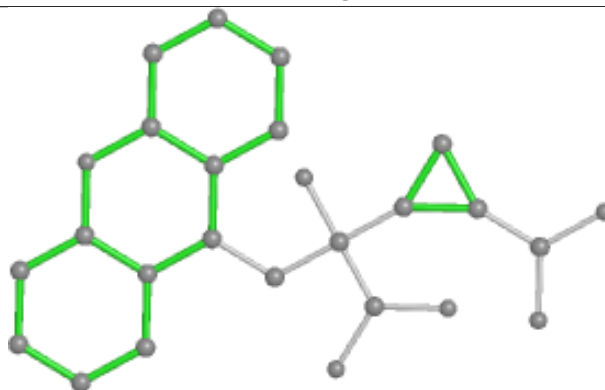
Bond lengths



Bond angles

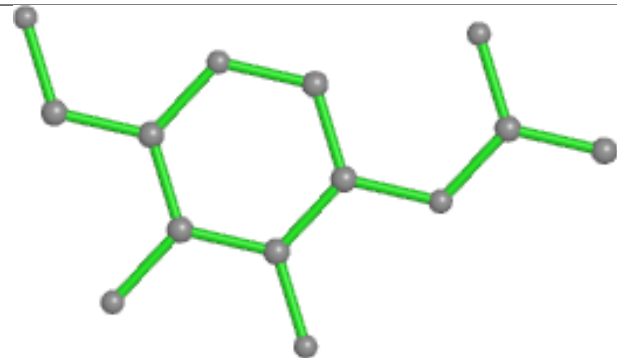


Torsions

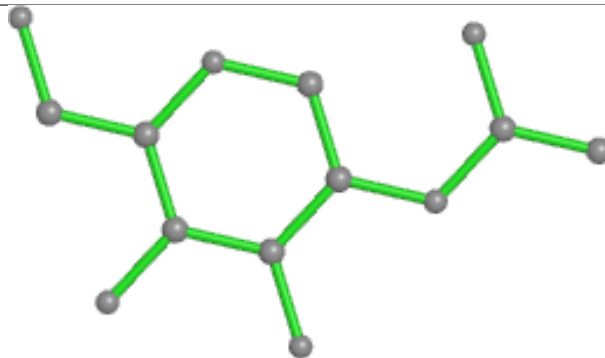


Rings

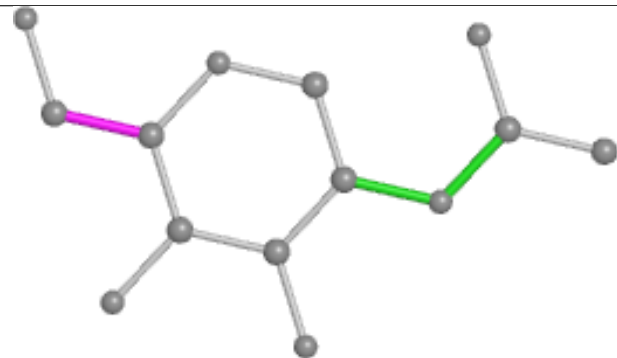
## Ligand NAG A 901



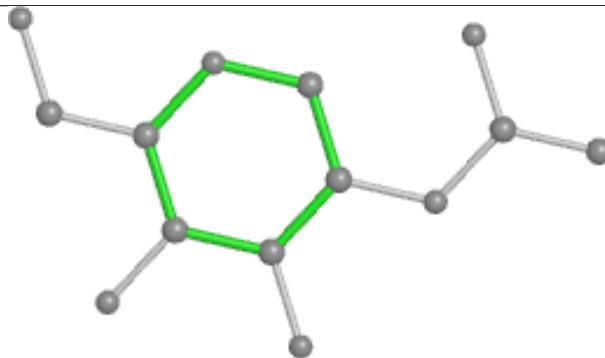
Bond lengths



Bond angles



Torsions



Rings



## 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-32527. These allow visual inspection of the internal detail of the map and identification of artifacts.

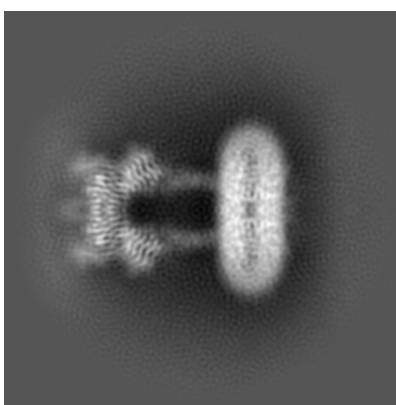
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

### 6.1 Orthogonal projections [i](#)

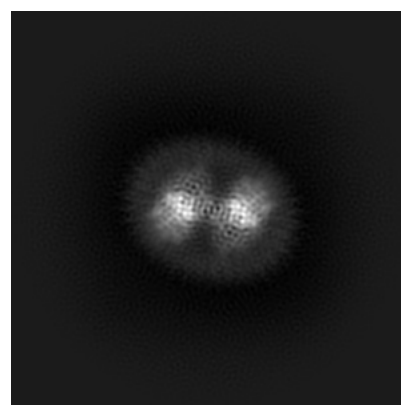
#### 6.1.1 Primary map



X



Y

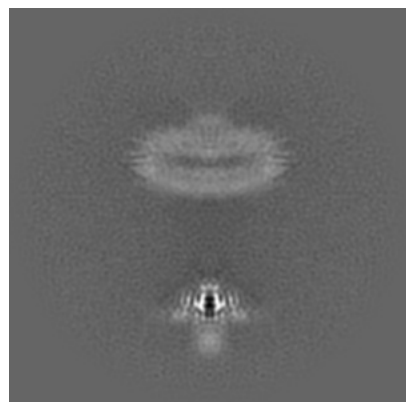


Z

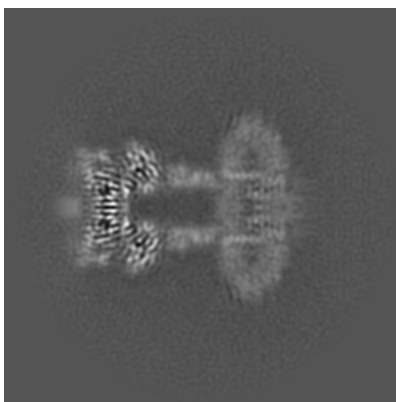
The images above show the map projected in three orthogonal directions.

### 6.2 Central slices [i](#)

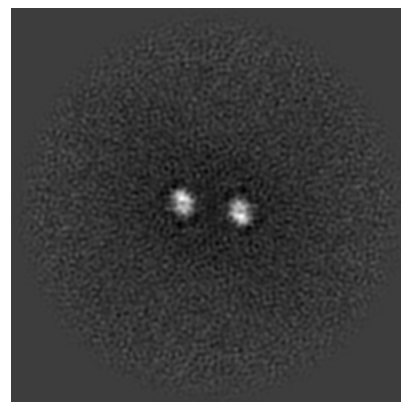
#### 6.2.1 Primary map



X Index: 160



Y Index: 160



Z Index: 160

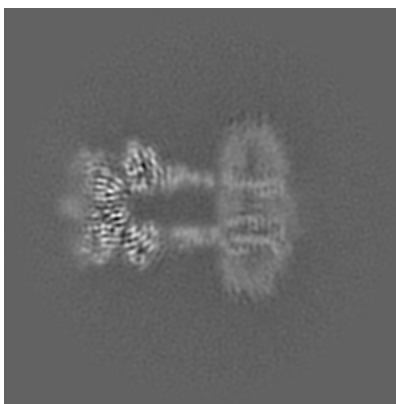
The images above show central slices of the map in three orthogonal directions.

## 6.3 Largest variance slices [i](#)

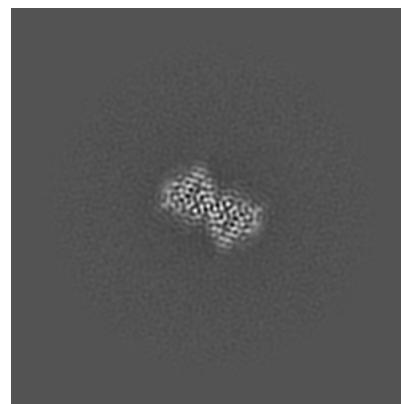
### 6.3.1 Primary map



X Index: 134



Y Index: 163

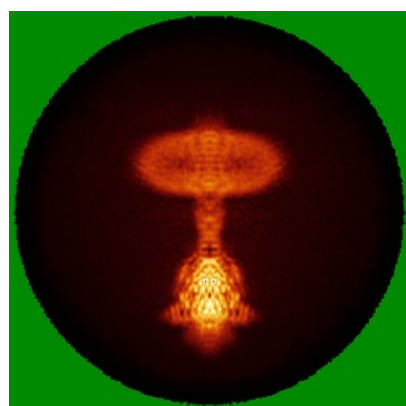


Z Index: 84

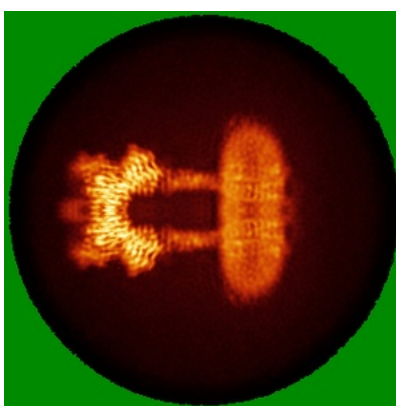
The images above show the largest variance slices of the map in three orthogonal directions.

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

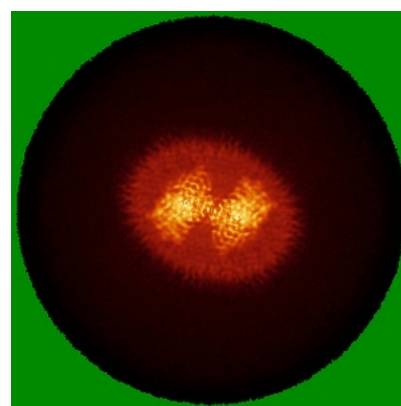
### 6.4.1 Primary map



X



Y

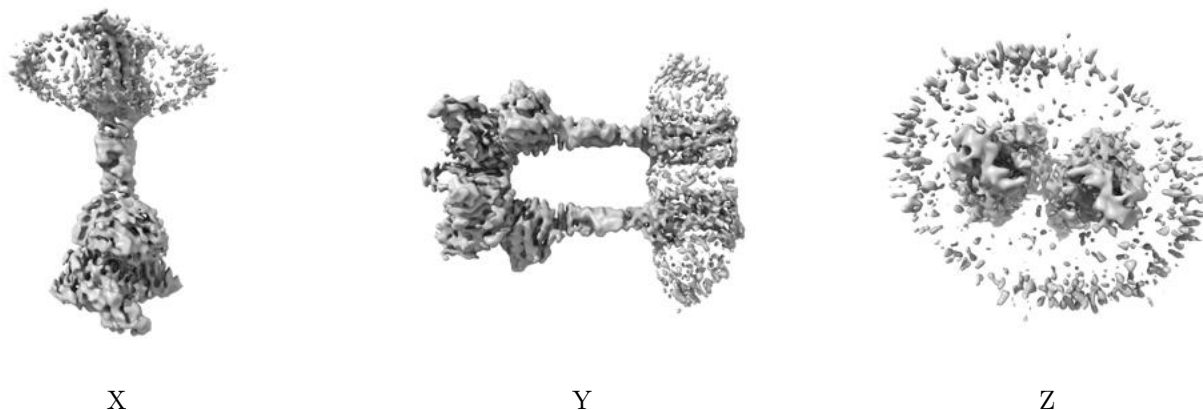


Z

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



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.

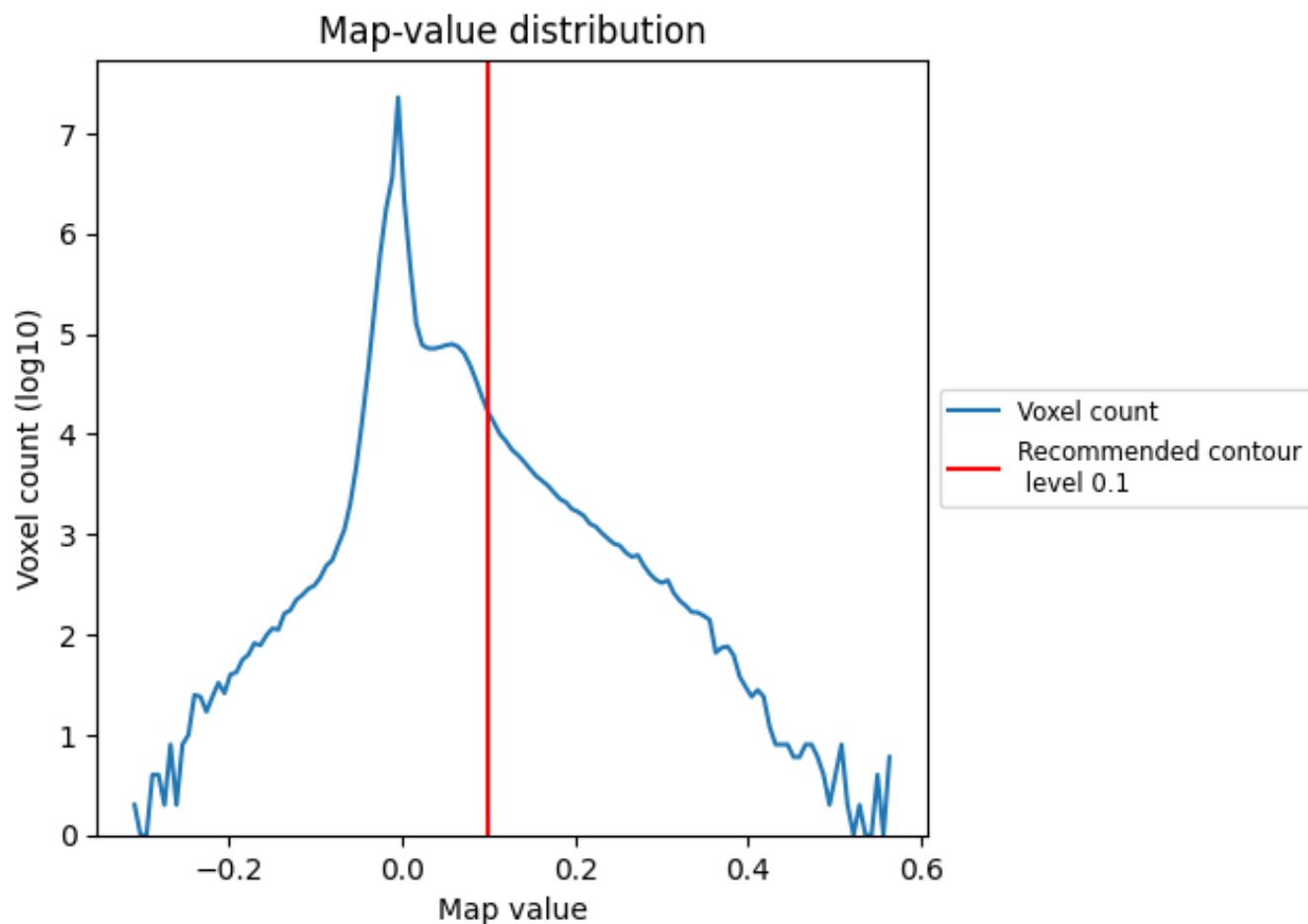
## 6.6 Mask visualisation [i](#)

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

## 7 Map analysis [i](#)

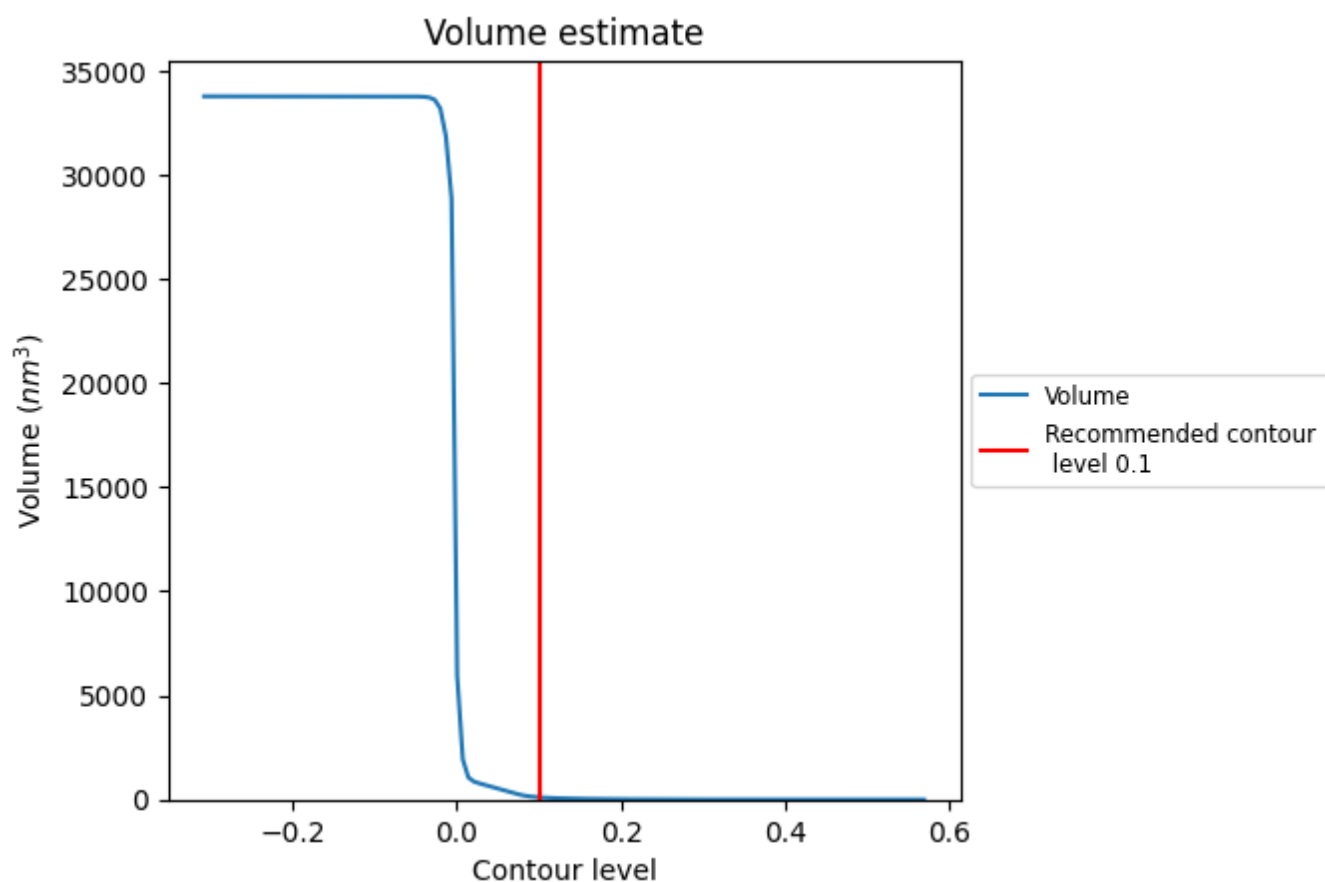
This section contains the results of statistical analysis of the map.

### 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.

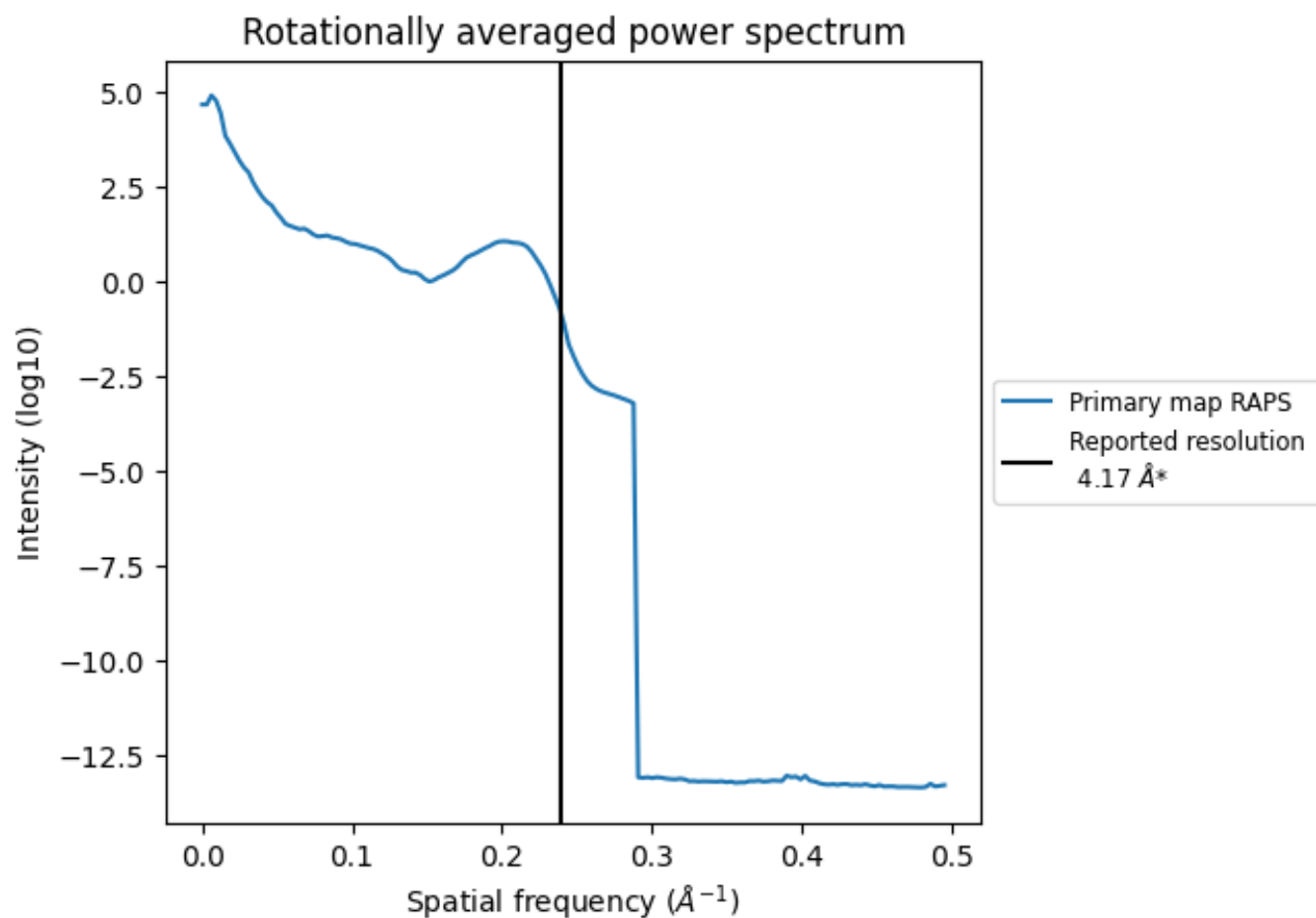
## 7.2 Volume estimate [i](#)



The volume at the recommended contour level is 108 nm<sup>3</sup>; this corresponds to an approximate mass of 98 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 0.240 Å<sup>-1</sup>

## 8 Fourier-Shell correlation

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



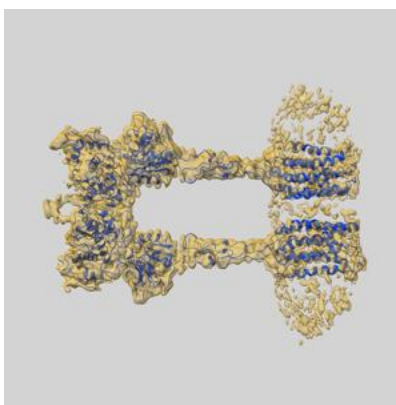
## 9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-32527 and PDB model 7WI8. Per-residue inclusion information can be found in section [3](#) on page [7](#).

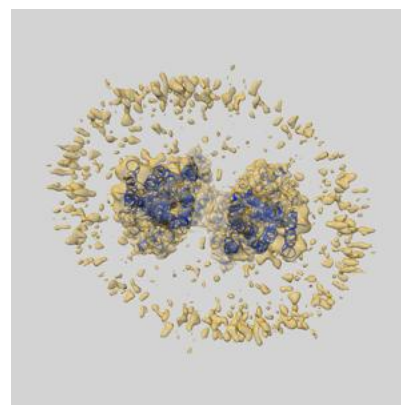
### 9.1 Map-model overlay [i](#)



X



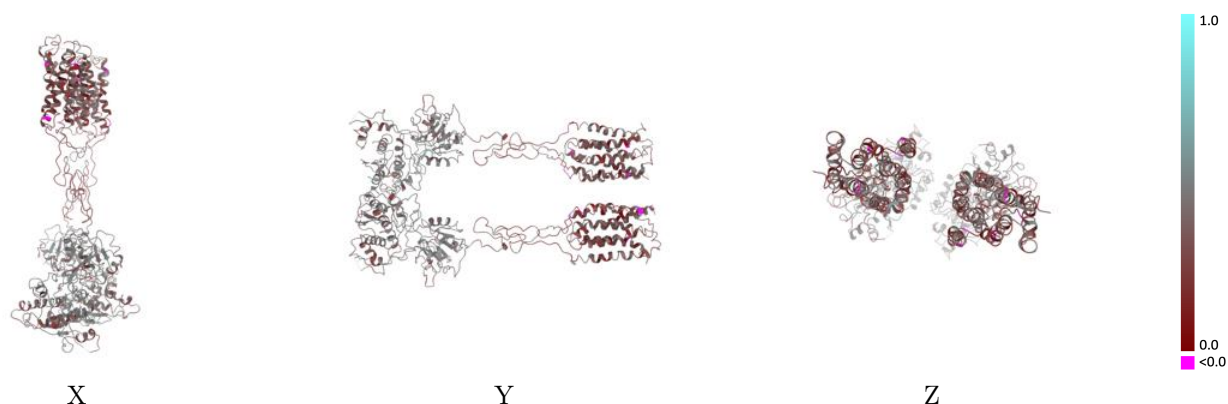
Y



Z

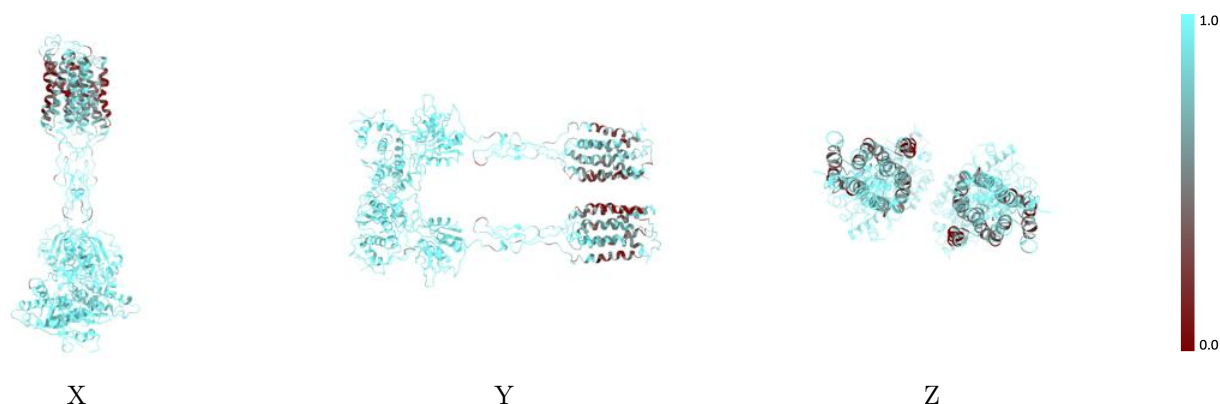
The images above show the 3D surface view of the map at the recommended contour level 0.1 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



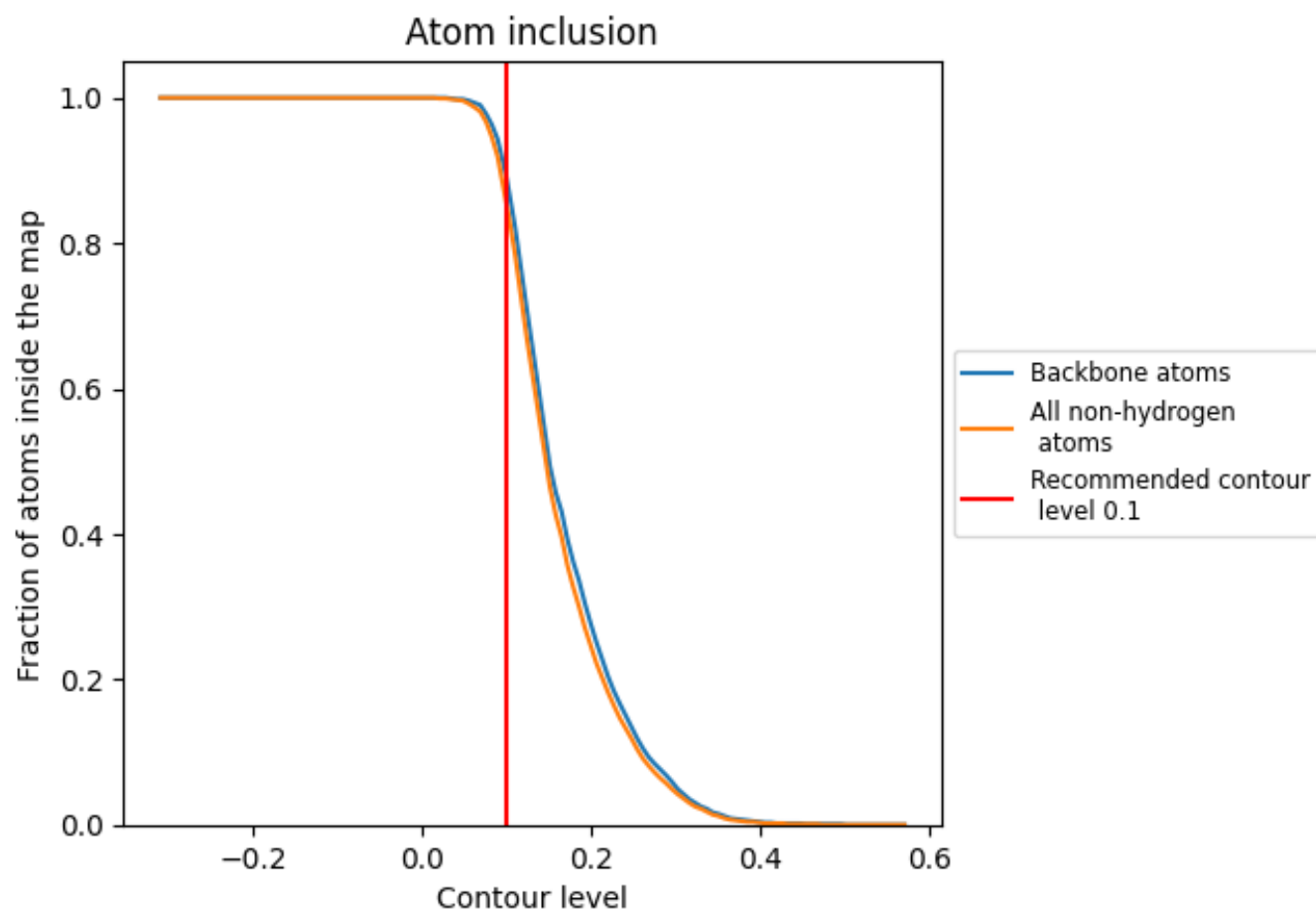
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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, 89% of all backbone atoms, 86% 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> 0.8550	<div></div> 0.3940
A	<div></div> 0.8560	<div></div> 0.3950
B	<div></div> 0.8540	<div></div> 0.3940

