



Full wwPDB EM Validation Report ⓘ

Mar 8, 2026 – 10:48 AM UTC

PDB ID : 6ZG0 / pdb_00006zg0
EMDB ID : EMD-11190
Title : SARM1 SAM1-2 domains
Authors : Sporny, M.; Guez-Haddad, J.; Khazma, T.; Yaron, A.; Dessau, M.; Mim, C.;
Isupov, M.N.; Zalk, R.; Hons, M.; Opatowsky, Y.
Deposited on : 2020-06-18
Resolution : 7.70 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
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

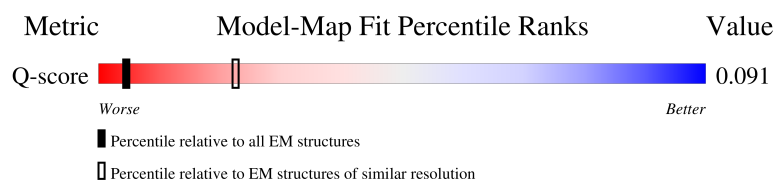
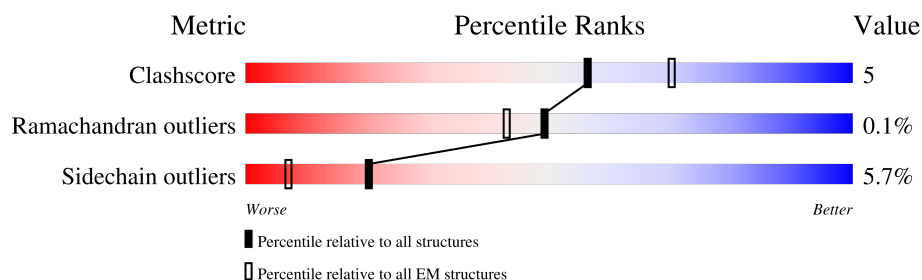
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 7.70 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)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	384 (7.20 - 8.20)

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	726	
1	B	726	
1	C	726	
1	D	726	

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Mol	Chain	Length	Quality of chain
1	E	726	
1	F	726	
1	G	726	
1	H	726	

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
2	EDO	D	808	-	-	X	-
2	EDO	E	801	-	-	X	-
4	PEG	D	802	-	-	X	-
5	PGE	B	805	-	-	X	-

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 9927 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 NAD(+) hydrolase SARM1.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	143	Total	C	N	O	S	7	0
			1211	763	220	221	7		
1	B	157	Total	C	N	O	S	8	0
			1323	832	241	243	7		
1	C	148	Total	C	N	O	S	5	0
			1231	775	221	228	7		
1	D	146	Total	C	N	O	S	3	0
			1203	756	215	225	7		
1	E	146	Total	C	N	O	S	3	0
			1209	761	219	222	7		
1	F	144	Total	C	N	O	S	7	0
			1211	762	219	223	7		
1	G	145	Total	C	N	O	S	5	0
			1205	758	217	223	7		
1	H	146	Total	C	N	O	S	4	0
			1210	761	217	225	7		

There are 224 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-1	MET	-	initiating methionine	UNP Q6SZW1
A	0	SER	-	expression tag	UNP Q6SZW1
A	1	TYR	-	expression tag	UNP Q6SZW1
A	2	HIS	-	expression tag	UNP Q6SZW1
A	3	HIS	-	expression tag	UNP Q6SZW1
A	4	HIS	-	expression tag	UNP Q6SZW1
A	5	HIS	-	expression tag	UNP Q6SZW1
A	6	HIS	-	expression tag	UNP Q6SZW1
A	7	HIS	-	expression tag	UNP Q6SZW1
A	8	ASP	-	expression tag	UNP Q6SZW1
A	9	TYR	-	expression tag	UNP Q6SZW1
A	10	ASP	-	expression tag	UNP Q6SZW1
A	11	ILE	-	expression tag	UNP Q6SZW1
A	12	PRO	-	expression tag	UNP Q6SZW1

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Chain	Residue	Modelled	Actual	Comment	Reference
A	13	THR	-	expression tag	UNP Q6SZW1
A	14	THR	-	expression tag	UNP Q6SZW1
A	15	GLU	-	expression tag	UNP Q6SZW1
A	16	ASN	-	expression tag	UNP Q6SZW1
A	17	LEU	-	expression tag	UNP Q6SZW1
A	18	TYR	-	expression tag	UNP Q6SZW1
A	19	PHE	-	expression tag	UNP Q6SZW1
A	20	GLN	-	expression tag	UNP Q6SZW1
A	21	GLY	-	expression tag	UNP Q6SZW1
A	22	ALA	-	expression tag	UNP Q6SZW1
A	23	MET	-	expression tag	UNP Q6SZW1
A	24	GLY	-	expression tag	UNP Q6SZW1
A	25	SER	-	expression tag	UNP Q6SZW1
A	642	GLN	GLU	conflict	UNP Q6SZW1
B	-1	MET	-	initiating methionine	UNP Q6SZW1
B	0	SER	-	expression tag	UNP Q6SZW1
B	1	TYR	-	expression tag	UNP Q6SZW1
B	2	HIS	-	expression tag	UNP Q6SZW1
B	3	HIS	-	expression tag	UNP Q6SZW1
B	4	HIS	-	expression tag	UNP Q6SZW1
B	5	HIS	-	expression tag	UNP Q6SZW1
B	6	HIS	-	expression tag	UNP Q6SZW1
B	7	HIS	-	expression tag	UNP Q6SZW1
B	8	ASP	-	expression tag	UNP Q6SZW1
B	9	TYR	-	expression tag	UNP Q6SZW1
B	10	ASP	-	expression tag	UNP Q6SZW1
B	11	ILE	-	expression tag	UNP Q6SZW1
B	12	PRO	-	expression tag	UNP Q6SZW1
B	13	THR	-	expression tag	UNP Q6SZW1
B	14	THR	-	expression tag	UNP Q6SZW1
B	15	GLU	-	expression tag	UNP Q6SZW1
B	16	ASN	-	expression tag	UNP Q6SZW1
B	17	LEU	-	expression tag	UNP Q6SZW1
B	18	TYR	-	expression tag	UNP Q6SZW1
B	19	PHE	-	expression tag	UNP Q6SZW1
B	20	GLN	-	expression tag	UNP Q6SZW1
B	21	GLY	-	expression tag	UNP Q6SZW1
B	22	ALA	-	expression tag	UNP Q6SZW1
B	23	MET	-	expression tag	UNP Q6SZW1
B	24	GLY	-	expression tag	UNP Q6SZW1
B	25	SER	-	expression tag	UNP Q6SZW1
B	642	GLN	GLU	conflict	UNP Q6SZW1

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Chain	Residue	Modelled	Actual	Comment	Reference
C	-1	MET	-	initiating methionine	UNP Q6SZW1
C	0	SER	-	expression tag	UNP Q6SZW1
C	1	TYR	-	expression tag	UNP Q6SZW1
C	2	HIS	-	expression tag	UNP Q6SZW1
C	3	HIS	-	expression tag	UNP Q6SZW1
C	4	HIS	-	expression tag	UNP Q6SZW1
C	5	HIS	-	expression tag	UNP Q6SZW1
C	6	HIS	-	expression tag	UNP Q6SZW1
C	7	HIS	-	expression tag	UNP Q6SZW1
C	8	ASP	-	expression tag	UNP Q6SZW1
C	9	TYR	-	expression tag	UNP Q6SZW1
C	10	ASP	-	expression tag	UNP Q6SZW1
C	11	ILE	-	expression tag	UNP Q6SZW1
C	12	PRO	-	expression tag	UNP Q6SZW1
C	13	THR	-	expression tag	UNP Q6SZW1
C	14	THR	-	expression tag	UNP Q6SZW1
C	15	GLU	-	expression tag	UNP Q6SZW1
C	16	ASN	-	expression tag	UNP Q6SZW1
C	17	LEU	-	expression tag	UNP Q6SZW1
C	18	TYR	-	expression tag	UNP Q6SZW1
C	19	PHE	-	expression tag	UNP Q6SZW1
C	20	GLN	-	expression tag	UNP Q6SZW1
C	21	GLY	-	expression tag	UNP Q6SZW1
C	22	ALA	-	expression tag	UNP Q6SZW1
C	23	MET	-	expression tag	UNP Q6SZW1
C	24	GLY	-	expression tag	UNP Q6SZW1
C	25	SER	-	expression tag	UNP Q6SZW1
C	642	GLN	GLU	conflict	UNP Q6SZW1
D	-1	MET	-	initiating methionine	UNP Q6SZW1
D	0	SER	-	expression tag	UNP Q6SZW1
D	1	TYR	-	expression tag	UNP Q6SZW1
D	2	HIS	-	expression tag	UNP Q6SZW1
D	3	HIS	-	expression tag	UNP Q6SZW1
D	4	HIS	-	expression tag	UNP Q6SZW1
D	5	HIS	-	expression tag	UNP Q6SZW1
D	6	HIS	-	expression tag	UNP Q6SZW1
D	7	HIS	-	expression tag	UNP Q6SZW1
D	8	ASP	-	expression tag	UNP Q6SZW1
D	9	TYR	-	expression tag	UNP Q6SZW1
D	10	ASP	-	expression tag	UNP Q6SZW1
D	11	ILE	-	expression tag	UNP Q6SZW1
D	12	PRO	-	expression tag	UNP Q6SZW1

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Chain	Residue	Modelled	Actual	Comment	Reference
D	13	THR	-	expression tag	UNP Q6SZW1
D	14	THR	-	expression tag	UNP Q6SZW1
D	15	GLU	-	expression tag	UNP Q6SZW1
D	16	ASN	-	expression tag	UNP Q6SZW1
D	17	LEU	-	expression tag	UNP Q6SZW1
D	18	TYR	-	expression tag	UNP Q6SZW1
D	19	PHE	-	expression tag	UNP Q6SZW1
D	20	GLN	-	expression tag	UNP Q6SZW1
D	21	GLY	-	expression tag	UNP Q6SZW1
D	22	ALA	-	expression tag	UNP Q6SZW1
D	23	MET	-	expression tag	UNP Q6SZW1
D	24	GLY	-	expression tag	UNP Q6SZW1
D	25	SER	-	expression tag	UNP Q6SZW1
D	642	GLN	GLU	conflict	UNP Q6SZW1
E	-1	MET	-	initiating methionine	UNP Q6SZW1
E	0	SER	-	expression tag	UNP Q6SZW1
E	1	TYR	-	expression tag	UNP Q6SZW1
E	2	HIS	-	expression tag	UNP Q6SZW1
E	3	HIS	-	expression tag	UNP Q6SZW1
E	4	HIS	-	expression tag	UNP Q6SZW1
E	5	HIS	-	expression tag	UNP Q6SZW1
E	6	HIS	-	expression tag	UNP Q6SZW1
E	7	HIS	-	expression tag	UNP Q6SZW1
E	8	ASP	-	expression tag	UNP Q6SZW1
E	9	TYR	-	expression tag	UNP Q6SZW1
E	10	ASP	-	expression tag	UNP Q6SZW1
E	11	ILE	-	expression tag	UNP Q6SZW1
E	12	PRO	-	expression tag	UNP Q6SZW1
E	13	THR	-	expression tag	UNP Q6SZW1
E	14	THR	-	expression tag	UNP Q6SZW1
E	15	GLU	-	expression tag	UNP Q6SZW1
E	16	ASN	-	expression tag	UNP Q6SZW1
E	17	LEU	-	expression tag	UNP Q6SZW1
E	18	TYR	-	expression tag	UNP Q6SZW1
E	19	PHE	-	expression tag	UNP Q6SZW1
E	20	GLN	-	expression tag	UNP Q6SZW1
E	21	GLY	-	expression tag	UNP Q6SZW1
E	22	ALA	-	expression tag	UNP Q6SZW1
E	23	MET	-	expression tag	UNP Q6SZW1
E	24	GLY	-	expression tag	UNP Q6SZW1
E	25	SER	-	expression tag	UNP Q6SZW1
E	642	GLN	GLU	conflict	UNP Q6SZW1

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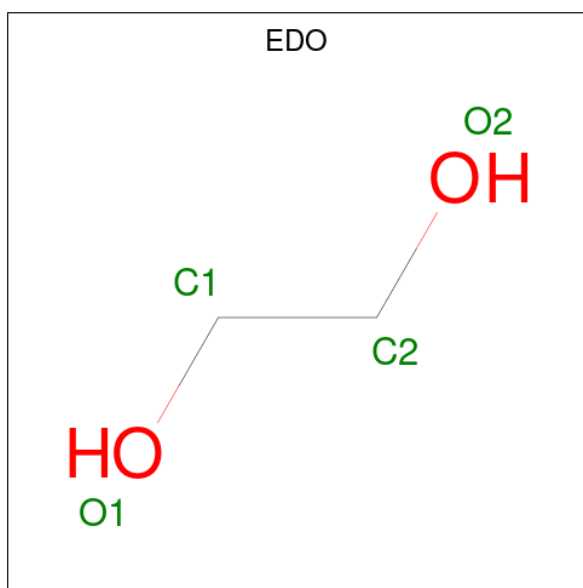
Chain	Residue	Modelled	Actual	Comment	Reference
F	-1	MET	-	initiating methionine	UNP Q6SZW1
F	0	SER	-	expression tag	UNP Q6SZW1
F	1	TYR	-	expression tag	UNP Q6SZW1
F	2	HIS	-	expression tag	UNP Q6SZW1
F	3	HIS	-	expression tag	UNP Q6SZW1
F	4	HIS	-	expression tag	UNP Q6SZW1
F	5	HIS	-	expression tag	UNP Q6SZW1
F	6	HIS	-	expression tag	UNP Q6SZW1
F	7	HIS	-	expression tag	UNP Q6SZW1
F	8	ASP	-	expression tag	UNP Q6SZW1
F	9	TYR	-	expression tag	UNP Q6SZW1
F	10	ASP	-	expression tag	UNP Q6SZW1
F	11	ILE	-	expression tag	UNP Q6SZW1
F	12	PRO	-	expression tag	UNP Q6SZW1
F	13	THR	-	expression tag	UNP Q6SZW1
F	14	THR	-	expression tag	UNP Q6SZW1
F	15	GLU	-	expression tag	UNP Q6SZW1
F	16	ASN	-	expression tag	UNP Q6SZW1
F	17	LEU	-	expression tag	UNP Q6SZW1
F	18	TYR	-	expression tag	UNP Q6SZW1
F	19	PHE	-	expression tag	UNP Q6SZW1
F	20	GLN	-	expression tag	UNP Q6SZW1
F	21	GLY	-	expression tag	UNP Q6SZW1
F	22	ALA	-	expression tag	UNP Q6SZW1
F	23	MET	-	expression tag	UNP Q6SZW1
F	24	GLY	-	expression tag	UNP Q6SZW1
F	25	SER	-	expression tag	UNP Q6SZW1
F	642	GLN	GLU	conflict	UNP Q6SZW1
G	-1	MET	-	initiating methionine	UNP Q6SZW1
G	0	SER	-	expression tag	UNP Q6SZW1
G	1	TYR	-	expression tag	UNP Q6SZW1
G	2	HIS	-	expression tag	UNP Q6SZW1
G	3	HIS	-	expression tag	UNP Q6SZW1
G	4	HIS	-	expression tag	UNP Q6SZW1
G	5	HIS	-	expression tag	UNP Q6SZW1
G	6	HIS	-	expression tag	UNP Q6SZW1
G	7	HIS	-	expression tag	UNP Q6SZW1
G	8	ASP	-	expression tag	UNP Q6SZW1
G	9	TYR	-	expression tag	UNP Q6SZW1
G	10	ASP	-	expression tag	UNP Q6SZW1
G	11	ILE	-	expression tag	UNP Q6SZW1
G	12	PRO	-	expression tag	UNP Q6SZW1

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Chain	Residue	Modelled	Actual	Comment	Reference
G	13	THR	-	expression tag	UNP Q6SZW1
G	14	THR	-	expression tag	UNP Q6SZW1
G	15	GLU	-	expression tag	UNP Q6SZW1
G	16	ASN	-	expression tag	UNP Q6SZW1
G	17	LEU	-	expression tag	UNP Q6SZW1
G	18	TYR	-	expression tag	UNP Q6SZW1
G	19	PHE	-	expression tag	UNP Q6SZW1
G	20	GLN	-	expression tag	UNP Q6SZW1
G	21	GLY	-	expression tag	UNP Q6SZW1
G	22	ALA	-	expression tag	UNP Q6SZW1
G	23	MET	-	expression tag	UNP Q6SZW1
G	24	GLY	-	expression tag	UNP Q6SZW1
G	25	SER	-	expression tag	UNP Q6SZW1
G	642	GLN	GLU	conflict	UNP Q6SZW1
H	-1	MET	-	initiating methionine	UNP Q6SZW1
H	0	SER	-	expression tag	UNP Q6SZW1
H	1	TYR	-	expression tag	UNP Q6SZW1
H	2	HIS	-	expression tag	UNP Q6SZW1
H	3	HIS	-	expression tag	UNP Q6SZW1
H	4	HIS	-	expression tag	UNP Q6SZW1
H	5	HIS	-	expression tag	UNP Q6SZW1
H	6	HIS	-	expression tag	UNP Q6SZW1
H	7	HIS	-	expression tag	UNP Q6SZW1
H	8	ASP	-	expression tag	UNP Q6SZW1
H	9	TYR	-	expression tag	UNP Q6SZW1
H	10	ASP	-	expression tag	UNP Q6SZW1
H	11	ILE	-	expression tag	UNP Q6SZW1
H	12	PRO	-	expression tag	UNP Q6SZW1
H	13	THR	-	expression tag	UNP Q6SZW1
H	14	THR	-	expression tag	UNP Q6SZW1
H	15	GLU	-	expression tag	UNP Q6SZW1
H	16	ASN	-	expression tag	UNP Q6SZW1
H	17	LEU	-	expression tag	UNP Q6SZW1
H	18	TYR	-	expression tag	UNP Q6SZW1
H	19	PHE	-	expression tag	UNP Q6SZW1
H	20	GLN	-	expression tag	UNP Q6SZW1
H	21	GLY	-	expression tag	UNP Q6SZW1
H	22	ALA	-	expression tag	UNP Q6SZW1
H	23	MET	-	expression tag	UNP Q6SZW1
H	24	GLY	-	expression tag	UNP Q6SZW1
H	25	SER	-	expression tag	UNP Q6SZW1
H	642	GLN	GLU	conflict	UNP Q6SZW1

- Molecule 2 is 1,2-ETHANEDIOL (CCD ID: EDO) (formula: $C_2H_6O_2$).



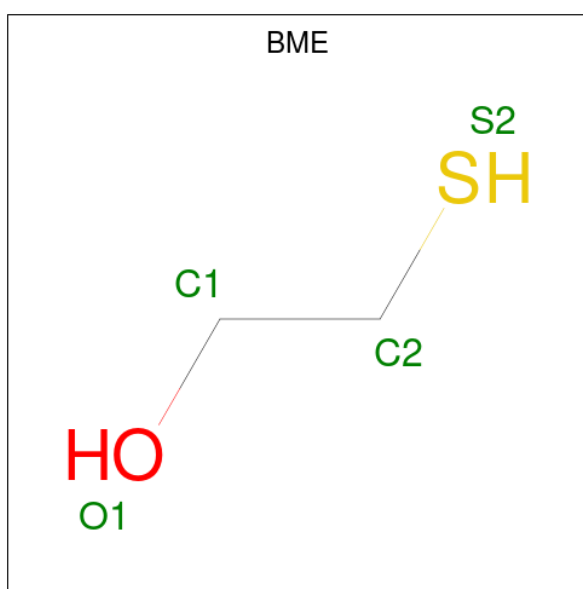
Mol	Chain	Residues	Atoms			AltConf
2	A	1	Total	C	O	0
			4	2	2	
2	A	1	Total	C	O	0
			4	2	2	
2	B	1	Total	C	O	0
			4	2	2	
2	B	1	Total	C	O	0
			4	2	2	
2	B	1	Total	C	O	0
			4	2	2	
2	B	1	Total	C	O	0
			4	2	2	
2	C	1	Total	C	O	0
			4	2	2	
2	C	1	Total	C	O	0
			4	2	2	
2	C	1	Total	C	O	0
			4	2	2	
2	D	1	Total	C	O	0
			4	2	2	
2	D	1	Total	C	O	0
			4	2	2	
2	D	1	Total	C	O	0
			4	2	2	

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Mol	Chain	Residues	Atoms			AltConf
2	D	1	Total	C	O	0
			4	2	2	
2	D	1	Total	C	O	0
			4	2	2	
2	E	1	Total	C	O	0
			4	2	2	
2	F	1	Total	C	O	0
			4	2	2	

- Molecule 3 is BETA-MERCAPTOETHANOL (CCD ID: BME) (formula: C₂H₆OS).



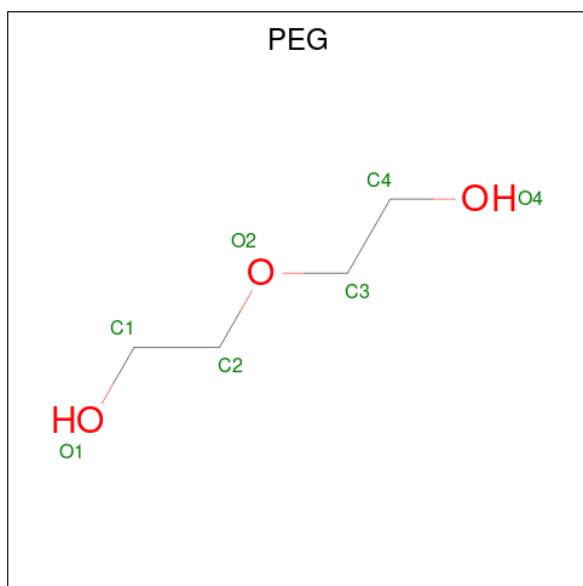
Mol	Chain	Residues	Atoms				AltConf
3	A	1	Total	C	O	S	0
			4	2	1	1	
3	B	1	Total	C	O	S	0
			4	2	1	1	
3	C	1	Total	C	O	S	0
			4	2	1	1	
3	D	1	Total	C	O	S	0
			4	2	1	1	
3	E	1	Total	C	O	S	0
			4	2	1	1	
3	F	1	Total	C	O	S	0
			4	2	1	1	
3	G	1	Total	C	O	S	0
			4	2	1	1	

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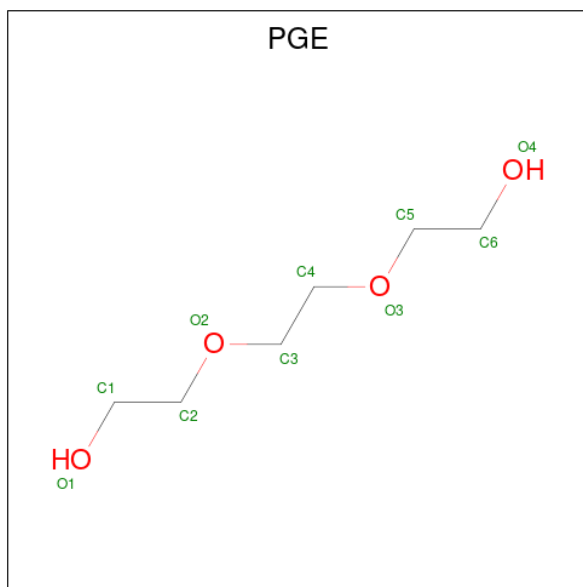
Mol	Chain	Residues	Atoms				AltConf
3	H	1	Total	C	O	S	0
			4	2	1	1	

- Molecule 4 is DI(HYDROXYETHYL)ETHER (CCD ID: PEG) (formula: $C_4H_{10}O_3$).

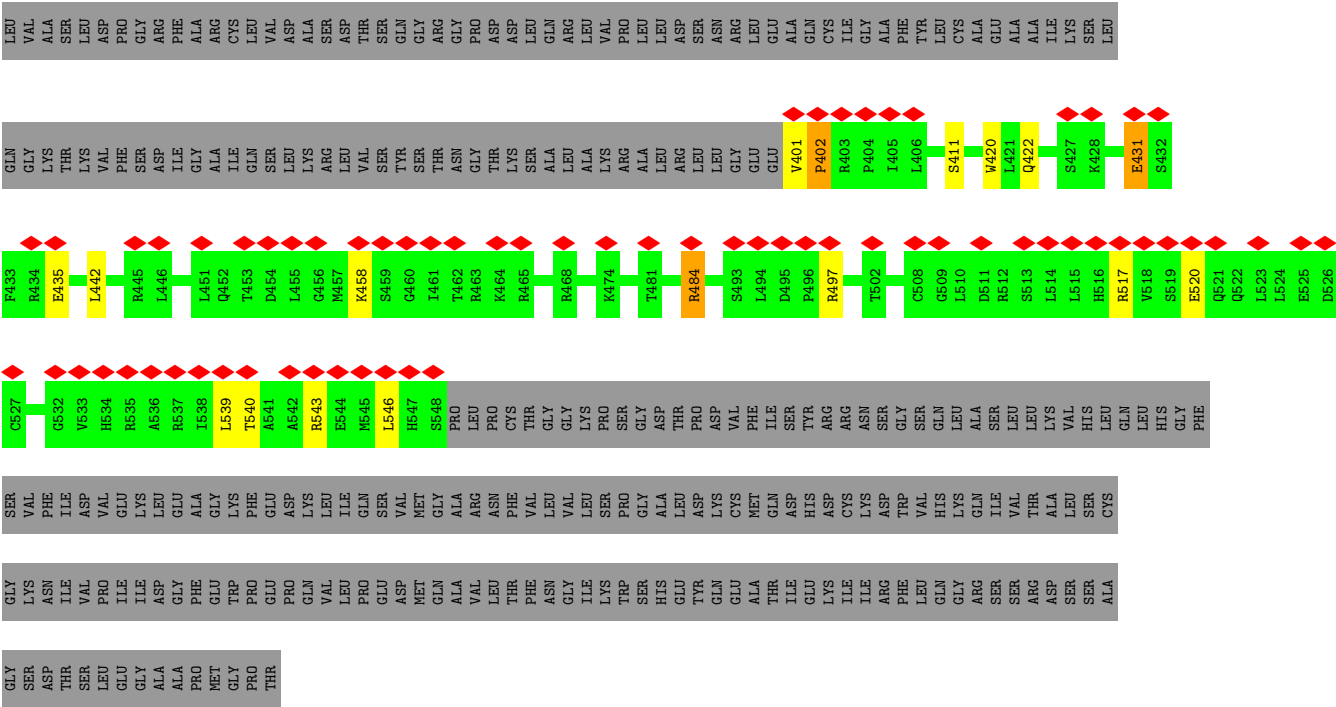


Mol	Chain	Residues	Atoms				AltConf
4	B	1	Total	C	O		0
			7	4	3		
4	D	1	Total	C	O		0
			7	4	3		

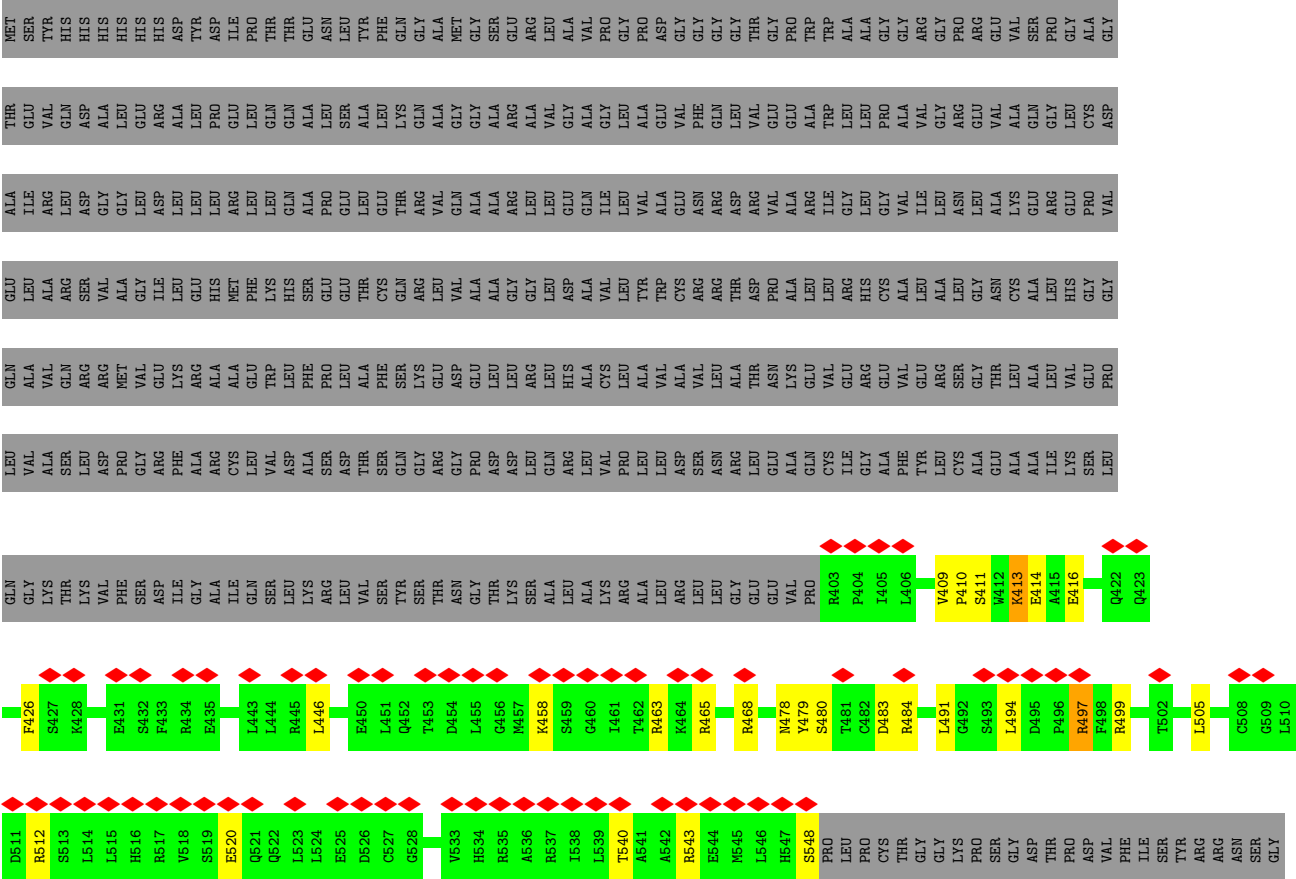
- Molecule 5 is TRIETHYLENE GLYCOL (CCD ID: PGE) (formula: $C_6H_{14}O_4$).

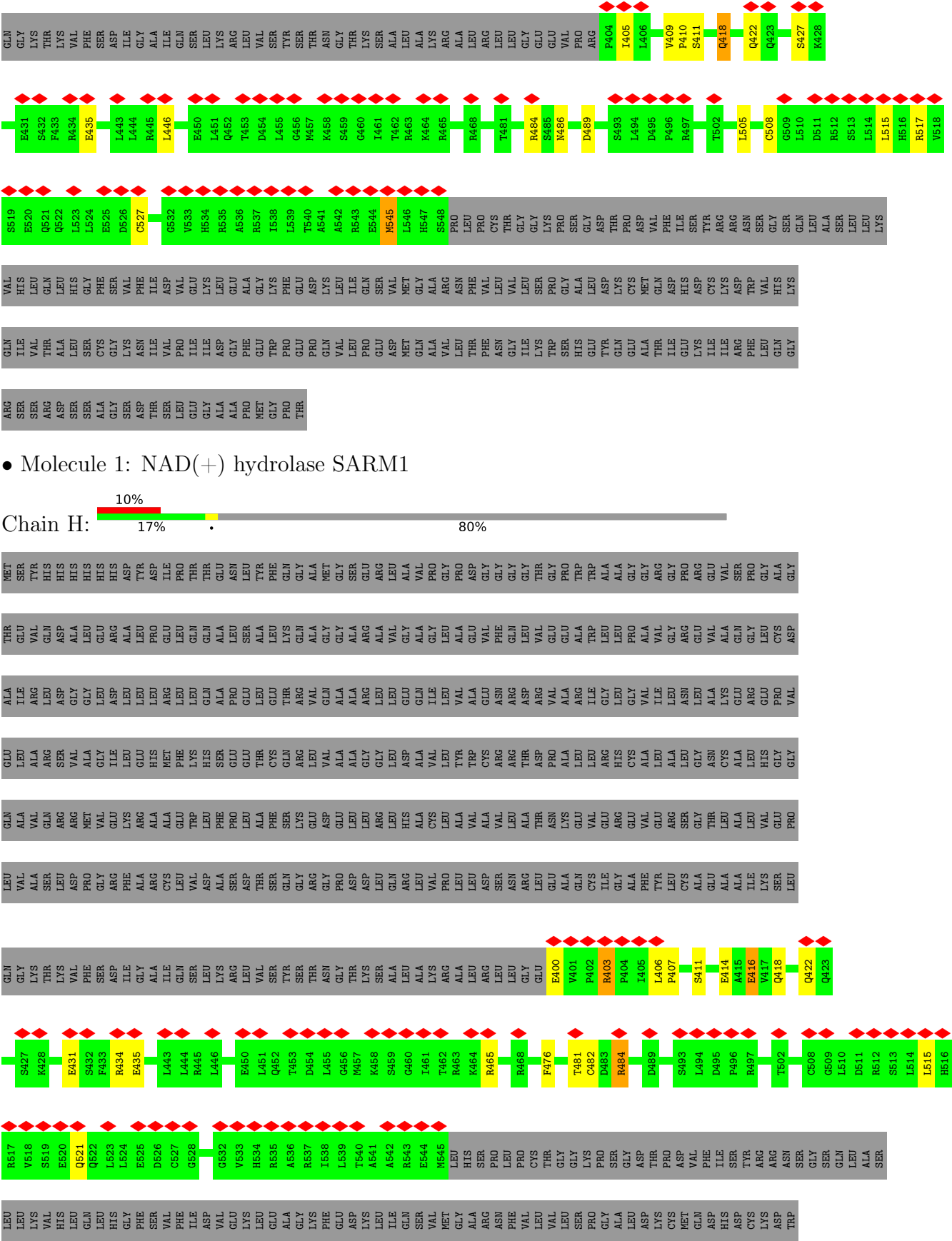


Mol	Chain	Residues	Atoms			AltConf
5	B	1	Total	C	O	0
			10	6	4	



● Molecule 1: NAD(+) hydrolase SARM1





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

LEU
GLN
GLY
ARG
SER
SER
ARG
ASP
SER
SER
ALA
GLY
SER
ASP
THR
SER
SER
GLU
GLY
ALA
ALA
PRO
MET
GLY
PRO
PRO
THR

4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	5410	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI POLARA 300	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	80	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	0.813	Depositor
Minimum map value	-0.413	Depositor
Average map value	0.005	Depositor
Map value standard deviation	0.041	Depositor
Recommended contour level	0.35	Depositor
Map size (Å)	281.6, 281.6, 281.6	wwPDB
Map dimensions	256, 256, 256	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.1, 1.1, 1.1	Depositor

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: BME, EDO, PGE, PEG

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	0.57	0/1254	1.08	1/1687 (0.1%)
1	B	0.63	0/1371	1.12	1/1846 (0.1%)
1	C	0.66	0/1270	1.10	1/1713 (0.1%)
1	D	0.67	0/1235	1.11	1/1665 (0.1%)
1	E	0.63	0/1242	1.08	1/1674 (0.1%)
1	F	0.58	0/1256	1.06	2/1692 (0.1%)
1	G	0.58	0/1243	1.06	2/1674 (0.1%)
1	H	0.62	0/1245	1.10	2/1679 (0.1%)
All	All	0.62	0/10116	1.09	11/13630 (0.1%)

There are no bond length outliers.

All (11) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	414	GLU	CB-CG-CD	10.74	130.85	112.60
1	B	508	CYS	CB-CA-C	-7.62	96.30	110.01
1	C	431	GLU	CB-CG-CD	7.55	125.43	112.60
1	A	545	MET	N-CA-C	-6.61	105.37	113.50
1	F	406	LEU	O-C-N	-5.99	118.78	121.53
1	H	403	ARG	CB-CA-C	5.92	116.91	108.68
1	H	416	GLU	CB-CG-CD	5.88	122.60	112.60
1	G	418	GLN	CB-CG-CD	5.80	122.47	112.60
1	F	484	ARG	CG-CD-NE	-5.24	100.47	112.00
1	E	508	CYS	CB-CA-C	-5.08	100.86	110.01
1	G	508	CYS	CB-CA-C	-5.03	100.95	110.01

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts ⓘ

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1211	0	1225	11	0
1	B	1323	0	1339	19	0
1	C	1231	0	1231	11	0
1	D	1203	0	1194	24	0
1	E	1209	0	1207	13	0
1	F	1211	0	1215	11	0
1	G	1205	0	1207	6	0
1	H	1210	0	1208	15	0
2	A	8	0	12	3	0
2	B	16	0	24	1	0
2	C	12	0	18	2	0
2	D	24	0	36	9	0
2	E	4	0	6	5	0
2	F	4	0	6	0	0
3	A	4	0	5	0	0
3	B	4	0	5	0	0
3	C	4	0	5	0	0
3	D	4	0	5	1	0
3	E	4	0	5	0	0
3	F	4	0	5	0	0
3	G	4	0	5	0	0
3	H	4	0	5	1	0
4	B	7	0	10	1	0
4	D	7	0	10	8	0
5	B	10	0	14	6	0
All	All	9927	0	10002	98	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 (98) 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:402:PRO:HB2	5:B:805:PGE:H32	1.52	0.91
1:A:465[A]:ARG:HH12	2:A:803:EDO:H21	1.38	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:486:ASN:OD1	1:G:489:ASP:HB2	1.76	0.83
1:D:465:ARG:HD2	2:D:808:EDO:H22	1.64	0.79
1:C:497:ARG:HH12	3:D:803:BME:H11	1.51	0.76
1:H:521[B]:GLN:HA	1:H:521[B]:GLN:OE1	1.85	0.76
1:B:404:PRO:HD2	5:B:805:PGE:H6	1.68	0.75
1:E:522:GLN:HG3	2:E:801:EDO:H22	1.71	0.73
1:B:465[A]:ARG:HG2	1:C:442:LEU:HD11	1.71	0.72
1:D:413:LYS:HG3	1:D:416:GLU:OE2	1.89	0.71
1:A:465[A]:ARG:HH12	2:A:803:EDO:C2	2.05	0.69
1:B:465[A]:ARG:CG	1:C:442:LEU:HD11	2.23	0.67
1:D:465:ARG:CD	2:D:808:EDO:H22	2.25	0.66
1:E:522:GLN:CG	2:E:801:EDO:H22	2.25	0.66
1:B:412:TRP:CH2	5:B:805:PGE:H52	2.30	0.65
1:G:515:LEU:HB3	1:G:545:MET:HE1	1.81	0.62
1:D:463:ARG:HH12	2:D:807:EDO:H11	1.65	0.61
1:B:404:PRO:O	5:B:805:PGE:H4	2.00	0.60
1:D:497:ARG:HH12	1:E:509:GLY:HA2	1.66	0.60
1:D:479:TYR:HB2	4:D:802:PEG:C2	2.32	0.60
1:A:540:THR:O	1:A:543[B]:ARG:HG3	2.02	0.59
1:D:465:ARG:HD2	2:D:808:EDO:C2	2.31	0.59
1:C:401:VAL:N	1:C:402:PRO:CD	2.65	0.59
1:H:406:LEU:N	1:H:407:PRO:HD3	2.18	0.57
1:F:516[A]:HIS:HD2	1:F:517[A]:ARG:CZ	2.18	0.57
1:C:520:GLU:HB2	1:C:539:LEU:HD11	1.87	0.56
1:D:465:ARG:HH11	2:D:808:EDO:H11	1.69	0.56
1:D:468:ARG:HH21	2:D:808:EDO:H12	1.70	0.55
1:D:468:ARG:NH2	2:D:808:EDO:H12	2.22	0.55
1:D:512:ARG:HH12	2:D:804:EDO:H22	1.72	0.55
1:B:406:LEU:N	1:B:407:PRO:HD3	2.21	0.54
1:D:480:SER:HA	4:D:802:PEG:C3	2.37	0.54
1:A:442:LEU:HD11	1:H:465[A]:ARG:CG	2.38	0.54
1:H:482[B]:CYS:HB3	3:H:801:BME:H12	1.89	0.54
1:E:465:ARG:CG	1:F:442:LEU:HD11	2.38	0.53
1:D:540:THR:HG21	1:E:517[A]:ARG:NH2	2.23	0.53
1:E:516:HIS:CE1	1:E:517[A]:ARG:HD2	2.44	0.52
1:C:546:LEU:HB3	2:C:802:EDO:H22	1.92	0.52
1:D:479:TYR:HB2	4:D:802:PEG:H21	1.92	0.52
1:D:480:SER:HA	4:D:802:PEG:H31	1.90	0.52
1:B:479:TYR:HB2	2:B:802:EDO:H21	1.91	0.51
1:D:479:TYR:HB2	4:D:802:PEG:H22	1.91	0.51
1:F:516[A]:HIS:CD2	1:F:517[A]:ARG:CZ	2.94	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:442:LEU:HD11	1:H:465[B]:ARG:HG2	1.92	0.51
1:B:500:GLN:HE22	4:B:803:PEG:H42	1.74	0.50
1:B:406:LEU:N	1:B:407:PRO:CD	2.75	0.49
1:H:406:LEU:N	1:H:407:PRO:CD	2.76	0.49
1:E:465:ARG:HG3	1:F:442:LEU:HD11	1.95	0.49
1:E:521:GLN:NE2	2:E:801:EDO:H21	2.28	0.49
1:B:414:GLU:O	1:B:418:GLN:HG2	2.13	0.49
1:C:540:THR:O	1:C:543:ARG:HG2	2.12	0.49
1:A:442:LEU:HD11	1:H:465[B]:ARG:CG	2.44	0.48
1:E:521:GLN:HE21	2:E:801:EDO:H21	1.77	0.48
1:C:420:TRP:HE1	2:C:804:EDO:H12	1.78	0.48
1:B:402:PRO:HD2	5:B:805:PGE:H12	1.94	0.48
1:A:465[A]:ARG:NH1	2:A:803:EDO:H21	2.16	0.47
1:A:409:VAL:N	1:A:410:PRO:CD	2.78	0.47
1:H:431:GLU:HG3	1:H:434:ARG:HH22	1.80	0.47
1:D:499:ARG:NH2	4:D:802:PEG:H12	2.30	0.46
1:H:521[B]:GLN:OE1	1:H:521[B]:GLN:CA	2.57	0.46
1:B:515:LEU:O	1:B:518:VAL:HG12	2.14	0.46
1:H:406:LEU:HA	1:H:476:PHE:O	2.16	0.46
1:C:401:VAL:N	1:C:402:PRO:HD2	2.31	0.46
1:F:516[A]:HIS:CD2	1:F:517[A]:ARG:NH2	2.84	0.45
1:D:540:THR:HG21	1:E:517[A]:ARG:HH22	1.80	0.45
1:B:403:ARG:H	1:B:403:ARG:HG2	1.68	0.45
1:E:484:ARG:HD3	1:E:484:ARG:HA	1.64	0.45
1:C:484:ARG:HD3	1:C:484:ARG:HA	1.63	0.45
1:F:403:ARG:N	1:F:403:ARG:CD	2.80	0.44
1:F:403:ARG:CD	1:F:403:ARG:H	2.29	0.44
1:H:431:GLU:HG3	1:H:434:ARG:NH2	2.33	0.44
1:A:442:LEU:HD11	1:H:465[A]:ARG:HG2	2.00	0.44
1:H:481:THR:O	1:H:484:ARG:NH1	2.50	0.44
1:D:426:PHE:HA	2:D:801:EDO:H11	1.99	0.44
1:G:409:VAL:N	1:G:410:PRO:CD	2.80	0.44
1:F:403:ARG:H	1:F:403:ARG:HD3	1.82	0.44
1:E:522:GLN:HG2	2:E:801:EDO:H22	2.00	0.43
1:F:505:LEU:HD23	1:F:527:CYS:SG	2.58	0.43
1:B:420:TRP:HB2	5:B:805:PGE:H5	2.01	0.43
1:B:392:ARG:HG2	1:B:394:LEU:HD12	2.00	0.43
1:G:505:LEU:HD23	1:G:527:CYS:SG	2.59	0.43
1:D:494:LEU:HD12	1:D:494:LEU:HA	1.91	0.42
1:B:465[A]:ARG:HG3	1:C:442:LEU:HD11	2.01	0.42
1:D:478:ASN:HA	4:D:802:PEG:O1	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:540:THR:O	1:B:543[B]:ARG:HG2	2.20	0.41
1:D:483:ASP:O	4:D:802:PEG:H42	2.20	0.41
1:G:446:LEU:HD12	1:G:446:LEU:HA	1.94	0.41
1:H:515:LEU:HD12	1:H:515:LEU:HA	1.94	0.41
1:E:409:VAL:N	1:E:410:PRO:CD	2.84	0.41
1:D:409:VAL:N	1:D:410:PRO:CD	2.84	0.41
1:A:414:GLU:O	1:A:418:GLN:HG2	2.21	0.40
1:F:409:VAL:N	1:F:410:PRO:CD	2.84	0.40
1:A:515:LEU:O	1:A:518:VAL:HG12	2.22	0.40
1:H:414:GLU:O	1:H:418:GLN:HG2	2.22	0.40
1:D:491:LEU:HD11	1:D:505:LEU:HD12	2.03	0.40
1:B:547:HIS:O	1:B:548:SER:HB2	2.20	0.40
1:F:402:PRO:HB3	1:F:403:ARG:HD3	2.02	0.40
1:G:486:ASN:OD1	1:G:489:ASP:CB	2.60	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 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	148/726 (20%)	146 (99%)	2 (1%)	0	100	100
1	B	163/726 (22%)	159 (98%)	4 (2%)	0	100	100
1	C	151/726 (21%)	147 (97%)	3 (2%)	1 (1%)	18	56
1	D	147/726 (20%)	145 (99%)	2 (1%)	0	100	100
1	E	147/726 (20%)	144 (98%)	3 (2%)	0	100	100
1	F	149/726 (20%)	147 (99%)	2 (1%)	0	100	100
1	G	148/726 (20%)	145 (98%)	3 (2%)	0	100	100
1	H	148/726 (20%)	144 (97%)	4 (3%)	0	100	100
All	All	1201/5808 (21%)	1177 (98%)	23 (2%)	1 (0%)	49	83

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	C	402	PRO

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	135/594 (23%)	128 (95%)	7 (5%)	21	42
1	B	148/594 (25%)	138 (93%)	10 (7%)	14	36
1	C	138/594 (23%)	130 (94%)	8 (6%)	18	40
1	D	134/594 (23%)	125 (93%)	9 (7%)	15	36
1	E	134/594 (23%)	126 (94%)	8 (6%)	17	39
1	F	136/594 (23%)	130 (96%)	6 (4%)	25	47
1	G	135/594 (23%)	125 (93%)	10 (7%)	13	33
1	H	135/594 (23%)	127 (94%)	8 (6%)	18	39
All	All	1095/4752 (23%)	1029 (94%)	66 (6%)	20	39

All (66) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	405	ILE
1	A	411	SER
1	A	422	GLN
1	A	435	GLU
1	A	484	ARG
1	A	494	LEU
1	A	546	LEU
1	B	395	ARG
1	B	400	GLU
1	B	403	ARG
1	B	411	SER
1	B	422	GLN
1	B	427[A]	SER

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Mol	Chain	Res	Type
1	B	427[B]	SER
1	B	434[A]	ARG
1	B	434[B]	ARG
1	B	484	ARG
1	C	411[A]	SER
1	C	411[B]	SER
1	C	422	GLN
1	C	431	GLU
1	C	435	GLU
1	C	458	LYS
1	C	484	ARG
1	C	517	ARG
1	D	411	SER
1	D	413	LYS
1	D	446	LEU
1	D	458	LYS
1	D	484	ARG
1	D	497	ARG
1	D	520	GLU
1	D	543	ARG
1	D	548	SER
1	E	411	SER
1	E	422	GLN
1	E	427	SER
1	E	494	LEU
1	E	515	LEU
1	E	517[A]	ARG
1	E	517[B]	ARG
1	E	546	LEU
1	F	403	ARG
1	F	418	GLN
1	F	422	GLN
1	F	435	GLU
1	F	484	ARG
1	F	494	LEU
1	G	405	ILE
1	G	411	SER
1	G	418	GLN
1	G	422	GLN
1	G	427[A]	SER
1	G	427[B]	SER
1	G	435	GLU

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Mol	Chain	Res	Type
1	G	484	ARG
1	G	517	ARG
1	G	545	MET
1	H	400	GLU
1	H	403	ARG
1	H	411[A]	SER
1	H	411[B]	SER
1	H	416	GLU
1	H	422	GLN
1	H	435	GLU
1	H	484	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (19) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	437	GLN
1	A	500	GLN
1	B	486	ASN
1	B	500	GLN
1	C	486	ASN
1	C	500	GLN
1	C	547	HIS
1	D	437	GLN
1	D	486	ASN
1	D	500	GLN
1	D	516	HIS
1	E	486	ASN
1	E	500	GLN
1	E	521	GLN
1	F	423	GLN
1	F	486	ASN
1	G	436	GLN
1	H	486	ASN
1	H	500	GLN

5.3.3 RNA ⓘ

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](#)

28 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	EDO	B	801	-	3,3,3	0.50	0	2,2,2	0.65	0
2	EDO	D	808	-	3,3,3	0.33	0	2,2,2	0.59	0
2	EDO	B	802	-	3,3,3	0.22	0	2,2,2	0.24	0
2	EDO	E	801	-	3,3,3	0.17	0	2,2,2	0.68	0
2	EDO	B	807	-	3,3,3	0.08	0	2,2,2	0.20	0
3	BME	B	804	1	3,3,3	0.44	0	2,2,2	0.59	0
4	PEG	D	802	-	6,6,6	0.33	0	5,5,5	0.38	0
2	EDO	B	806	-	3,3,3	0.18	0	2,2,2	0.24	0
2	EDO	F	801	-	3,3,3	0.06	0	2,2,2	0.02	0
2	EDO	D	807	-	3,3,3	0.10	0	2,2,2	0.25	0
2	EDO	A	803	-	3,3,3	0.18	0	2,2,2	0.23	0
3	BME	H	801	1	3,3,3	0.25	0	2,2,2	0.07	0
2	EDO	D	804	-	3,3,3	0.17	0	2,2,2	0.08	0
2	EDO	D	805	-	3,3,3	0.20	0	2,2,2	0.11	0
2	EDO	A	801	-	3,3,3	0.06	0	2,2,2	0.31	0
2	EDO	C	804	-	3,3,3	0.16	0	2,2,2	0.06	0
2	EDO	D	806	-	3,3,3	0.27	0	2,2,2	0.36	0
2	EDO	C	802	-	3,3,3	0.34	0	2,2,2	0.78	0
3	BME	E	802	1	3,3,3	0.36	0	2,2,2	0.88	0
2	EDO	D	801	-	3,3,3	0.30	0	2,2,2	0.69	0
3	BME	G	801	1	3,3,3	0.26	0	2,2,2	0.46	0
3	BME	F	802	1	3,3,3	0.17	0	2,2,2	0.45	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	EDO	C	803	-	3,3,3	0.16	0	2,2,2	0.15	0
3	BME	A	802	1	3,3,3	0.28	0	2,2,2	0.65	0
3	BME	C	801	1	3,3,3	0.32	0	2,2,2	0.54	0
4	PEG	B	803	-	6,6,6	0.17	0	5,5,5	0.11	0
5	PGE	B	805	-	9,9,9	0.31	0	8,8,8	0.35	0
3	BME	D	803	1	3,3,3	0.30	0	2,2,2	1.17	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	EDO	B	801	-	-	1/1/1/1	-
2	EDO	D	808	-	-	1/1/1/1	-
2	EDO	B	802	-	-	1/1/1/1	-
2	EDO	E	801	-	-	1/1/1/1	-
2	EDO	B	807	-	-	0/1/1/1	-
3	BME	B	804	1	-	0/1/1/1	-
4	PEG	D	802	-	-	3/4/4/4	-
2	EDO	B	806	-	-	1/1/1/1	-
2	EDO	F	801	-	-	1/1/1/1	-
2	EDO	D	807	-	-	1/1/1/1	-
2	EDO	A	803	-	-	1/1/1/1	-
3	BME	H	801	1	-	1/1/1/1	-
2	EDO	D	804	-	-	0/1/1/1	-
2	EDO	D	805	-	-	1/1/1/1	-
2	EDO	A	801	-	-	0/1/1/1	-
2	EDO	C	804	-	-	1/1/1/1	-
2	EDO	D	806	-	-	0/1/1/1	-
2	EDO	C	802	-	-	0/1/1/1	-
3	BME	E	802	1	-	0/1/1/1	-
2	EDO	D	801	-	-	1/1/1/1	-
3	BME	G	801	1	-	0/1/1/1	-
3	BME	F	802	1	-	1/1/1/1	-
2	EDO	C	803	-	-	0/1/1/1	-
3	BME	A	802	1	-	0/1/1/1	-
3	BME	C	801	1	-	1/1/1/1	-
4	PEG	B	803	-	-	0/4/4/4	-
5	PGE	B	805	-	-	6/7/7/7	-
3	BME	D	803	1	-	1/1/1/1	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (24) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	C	801	BME	O1-C1-C2-S2
5	B	805	PGE	O2-C3-C4-O3
5	B	805	PGE	C1-C2-O2-C3
3	D	803	BME	O1-C1-C2-S2
3	F	802	BME	O1-C1-C2-S2
4	D	802	PEG	O1-C1-C2-O2
2	B	806	EDO	O1-C1-C2-O2
2	E	801	EDO	O1-C1-C2-O2
2	D	805	EDO	O1-C1-C2-O2
2	D	807	EDO	O1-C1-C2-O2
5	B	805	PGE	O3-C5-C6-O4
5	B	805	PGE	O1-C1-C2-O2
5	B	805	PGE	C3-C4-O3-C5
2	C	804	EDO	O1-C1-C2-O2
4	D	802	PEG	O2-C3-C4-O4
2	B	802	EDO	O1-C1-C2-O2
5	B	805	PGE	C6-C5-O3-C4
2	A	803	EDO	O1-C1-C2-O2
2	D	808	EDO	O1-C1-C2-O2
4	D	802	PEG	C1-C2-O2-C3
2	B	801	EDO	O1-C1-C2-O2
2	D	801	EDO	O1-C1-C2-O2
2	F	801	EDO	O1-C1-C2-O2
3	H	801	BME	O1-C1-C2-S2

There are no ring outliers.

14 monomers are involved in 37 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	D	808	EDO	6	0
2	B	802	EDO	1	0
2	E	801	EDO	5	0
4	D	802	PEG	8	0
2	D	807	EDO	1	0
2	A	803	EDO	3	0
3	H	801	BME	1	0
2	D	804	EDO	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	C	804	EDO	1	0
2	C	802	EDO	1	0
2	D	801	EDO	1	0
4	B	803	PEG	1	0
5	B	805	PGE	6	0
3	D	803	BME	1	0

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.

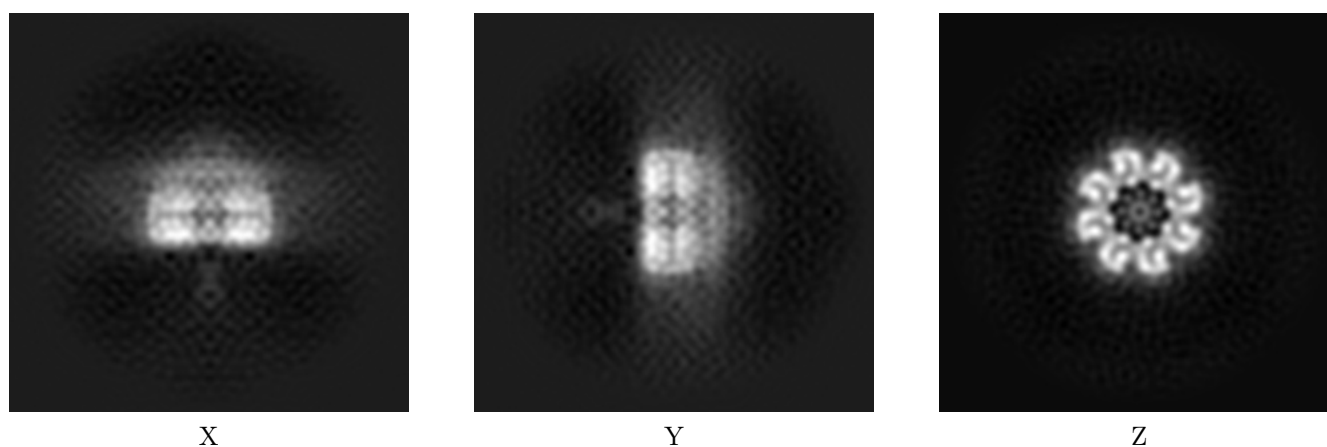
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-11190. 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](#)

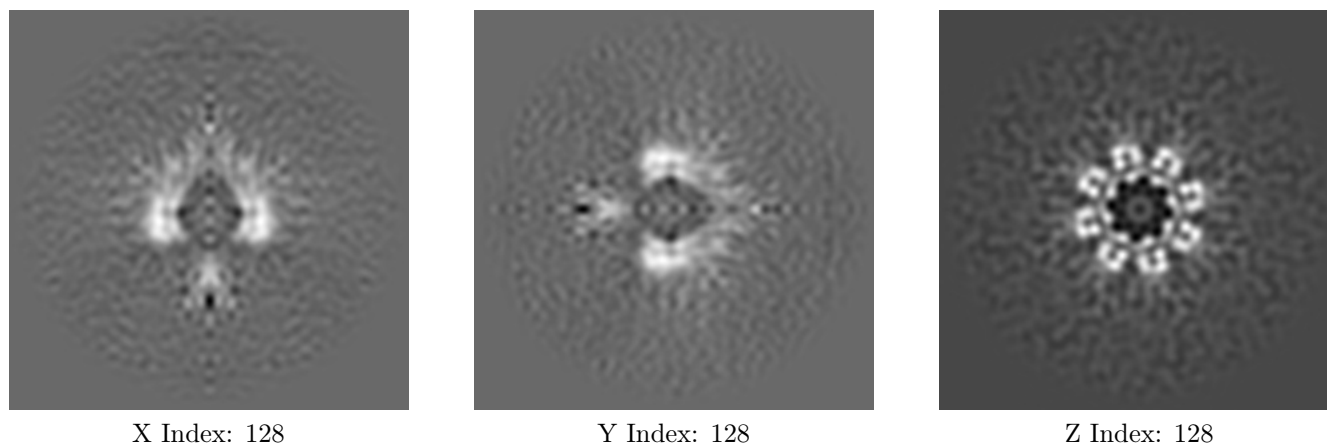
6.1.1 Primary map



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

6.2 Central slices [i](#)

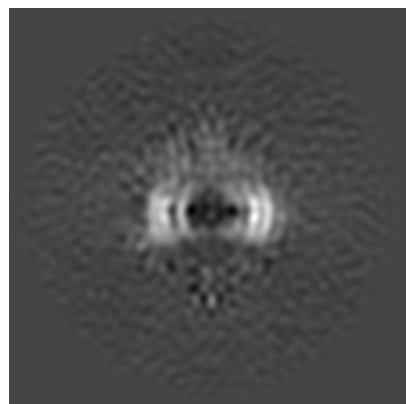
6.2.1 Primary map



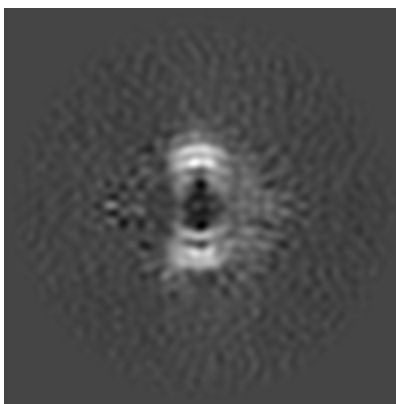
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

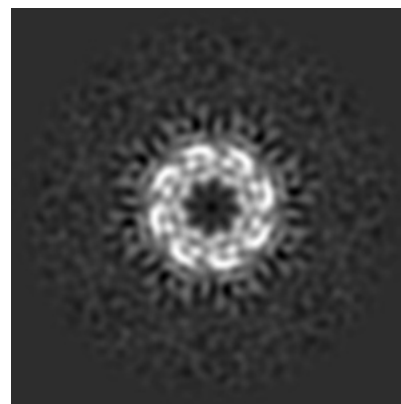
6.3.1 Primary map



X Index: 115



Y Index: 141

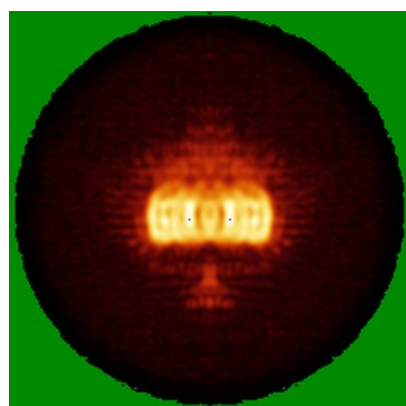


Z Index: 114

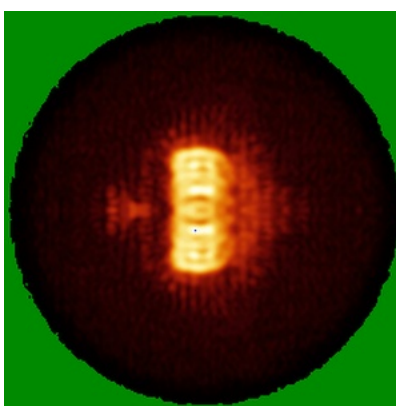
The images above show the largest variance slices of the map in three orthogonal directions.

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

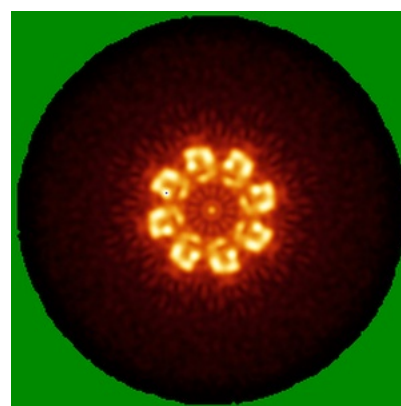
6.4.1 Primary map



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

This section was not generated.

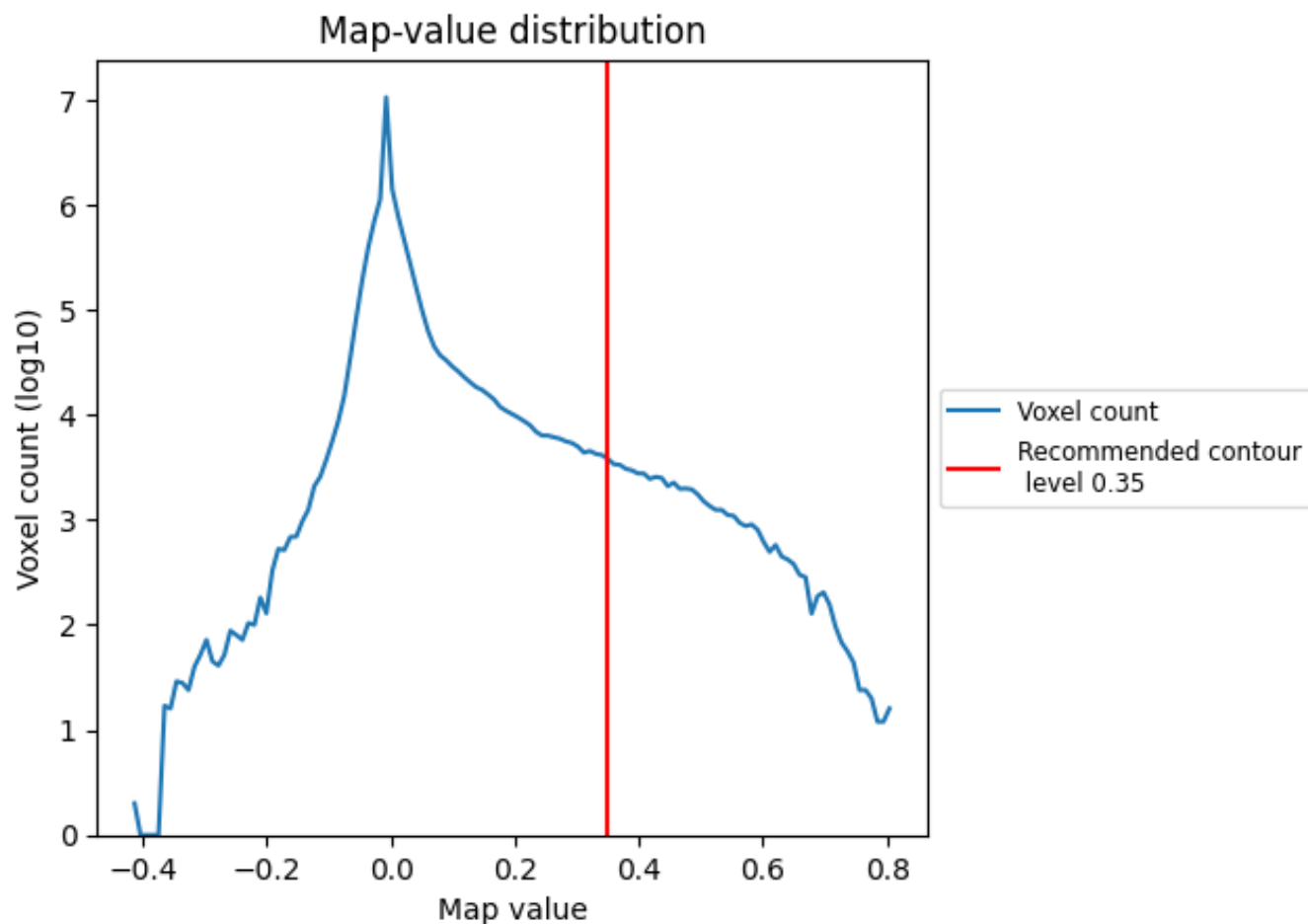
6.6 Mask visualisation

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

7 Map analysis [i](#)

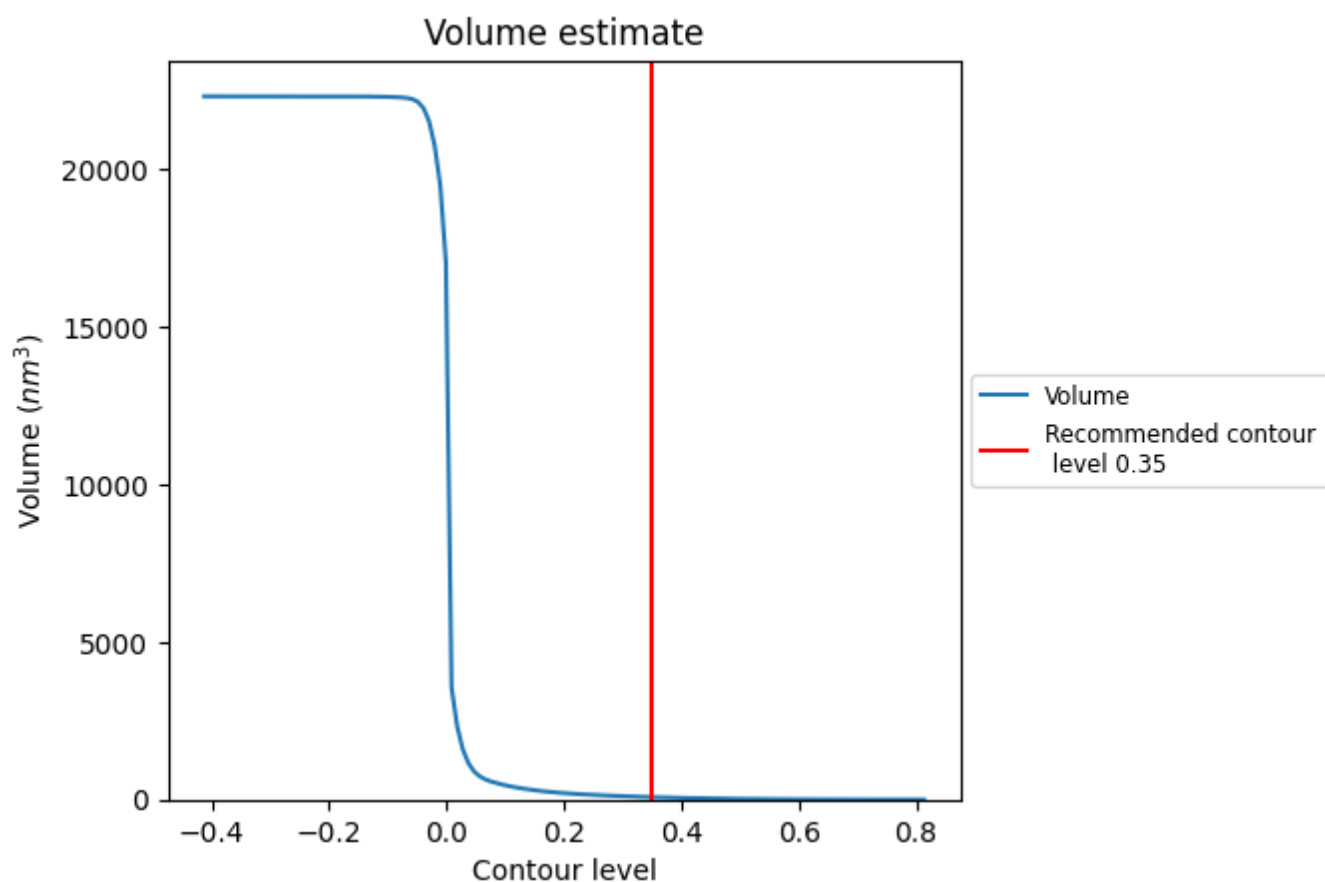
This section contains the results of statistical analysis of the map.

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.

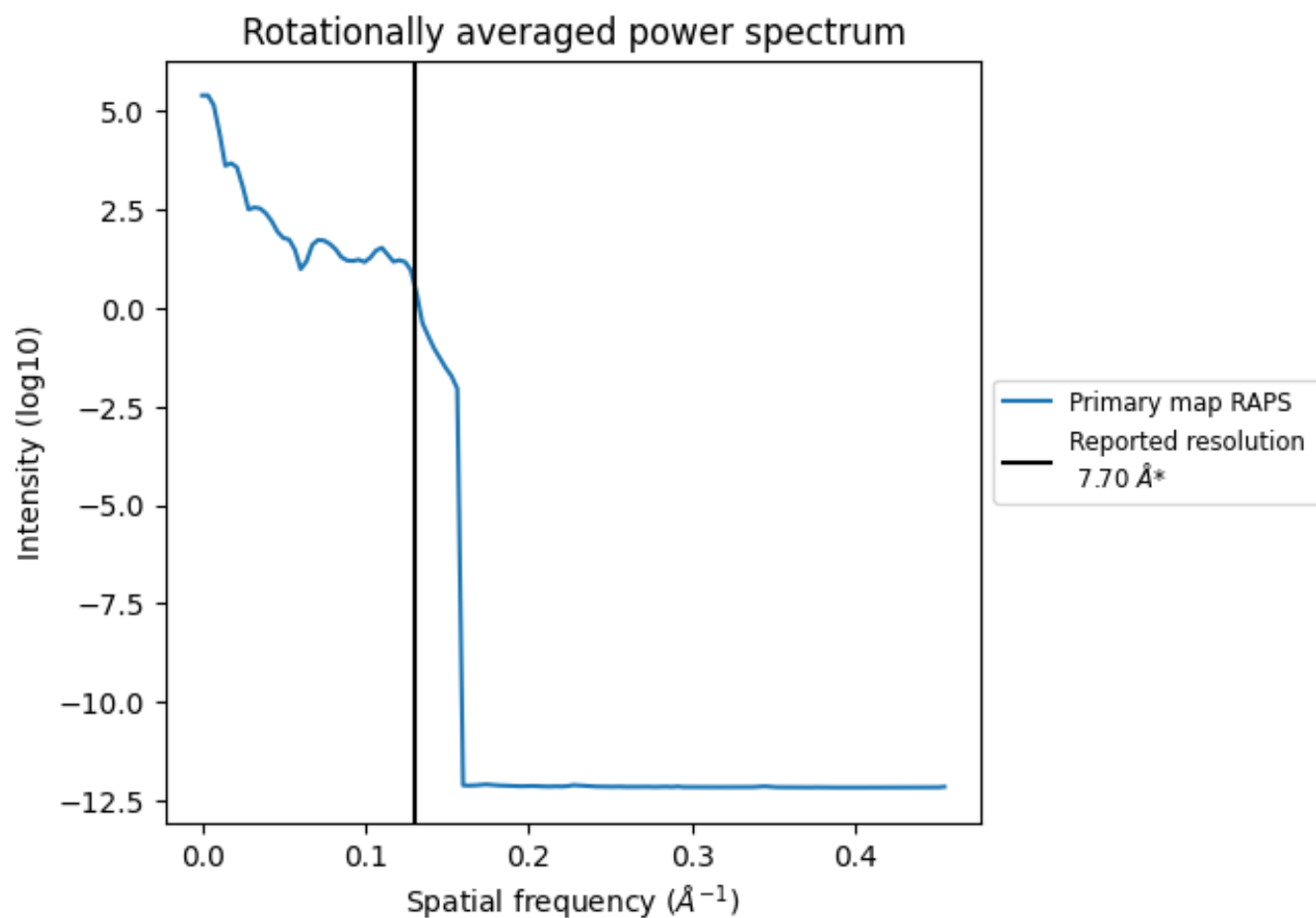
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 76 nm³; this corresponds to an approximate mass of 69 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 0.130 Å⁻¹

8 Fourier-Shell correlation

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

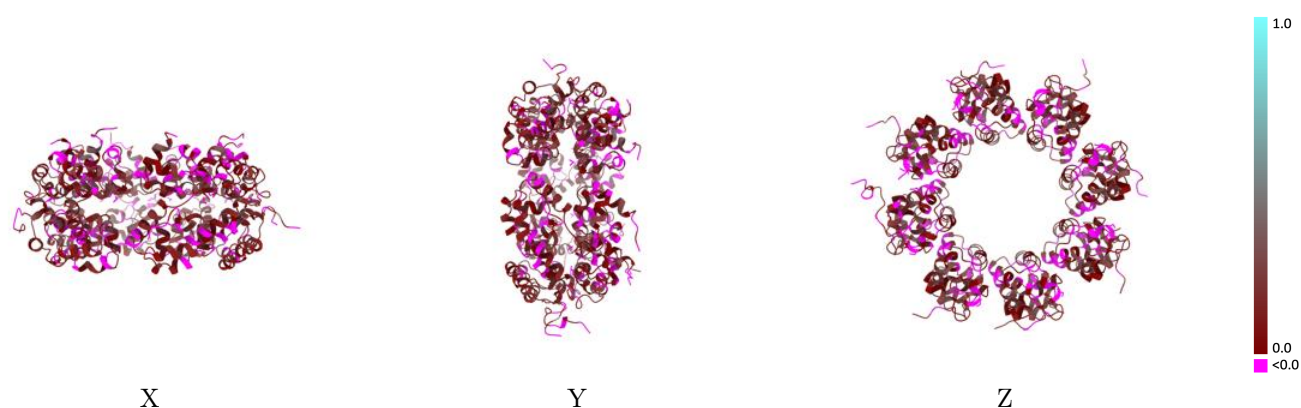
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-11190 and PDB model 6ZG0. Per-residue inclusion information can be found in section 3 on page 14.

9.1 Map-model overlay [i](#)

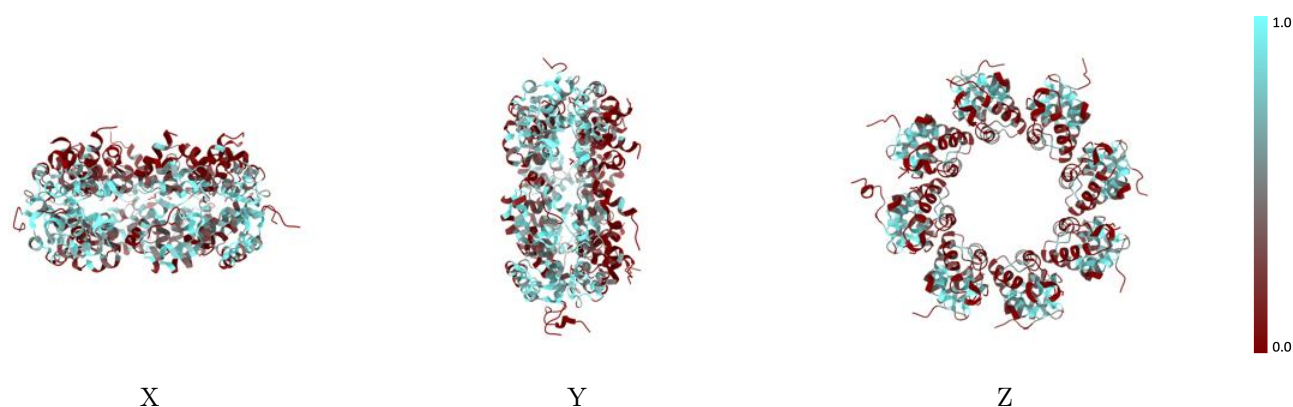
This section was not generated.

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



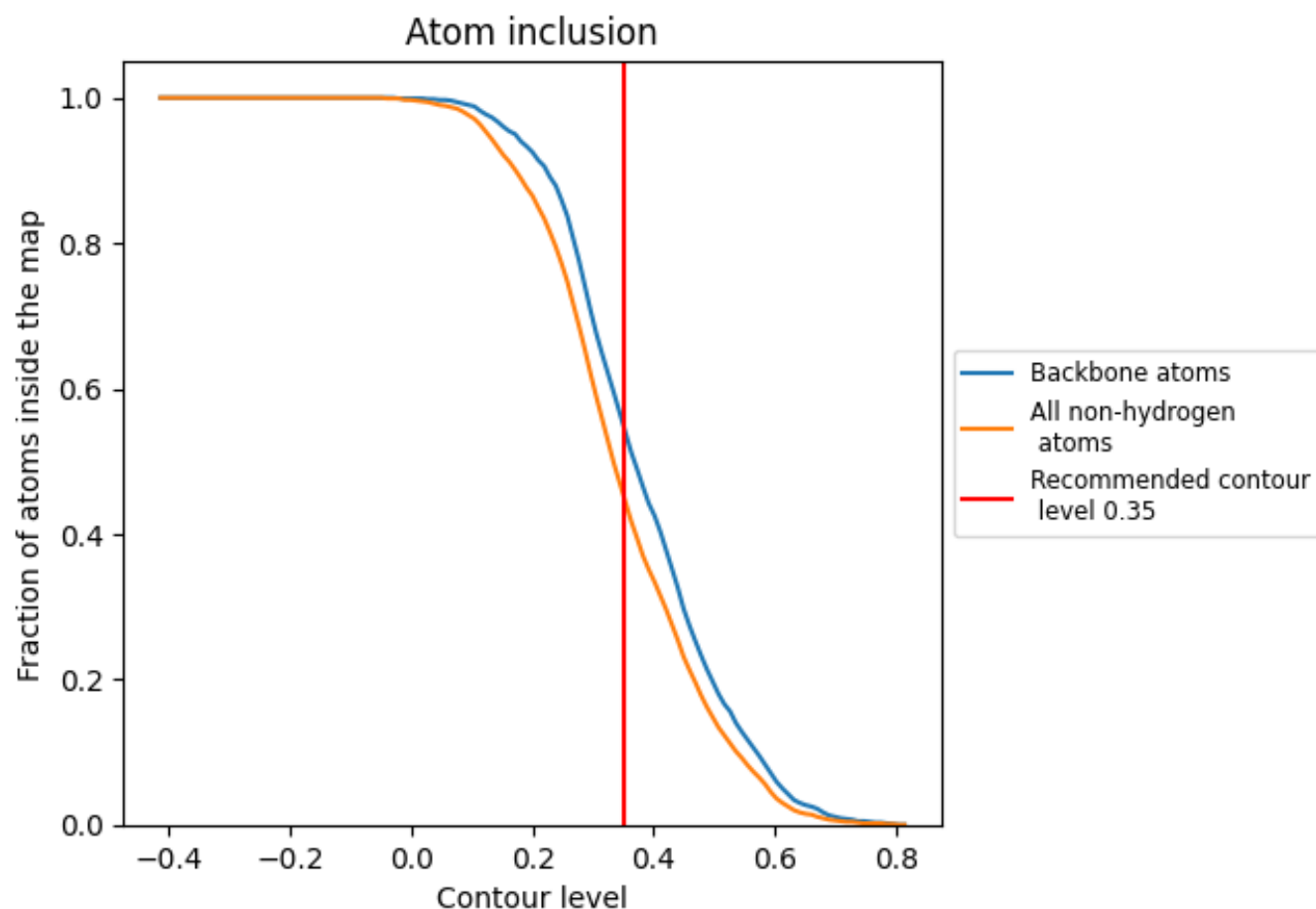
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.35).

9.4 Atom inclusion [i](#)



At the recommended contour level, 55% of all backbone atoms, 45% 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 (0.35) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.4540	0.0910
A	0.4680	0.0910
B	0.4260	0.0770
C	0.4550	0.0930
D	0.4570	0.0920
E	0.4510	0.0960
F	0.4600	0.0910
G	0.4610	0.0960
H	0.4560	0.0920

1.0

0.0

<0.0