

# Full wwPDB X-ray Structure Validation Report (i)

#### Nov 5, 2024 - 08:24 PM JST

PDB ID	:	8J1M
Title	:	Crystal structure of a crosslinked variant of BbZIP
Authors	:	Zhang, T.; Zhang, Y.; Sui, D.; Hu, J.
Deposited on		
Resolution	:	1.95 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

We welcome your comments at *validation@mail.wwpdb.org* A user guide is available at https://www.wwpdb.org/validation/2017/XrayValidationReportHelp with specific help available everywhere you see the (i) 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 (1)) were used in the production of this report:

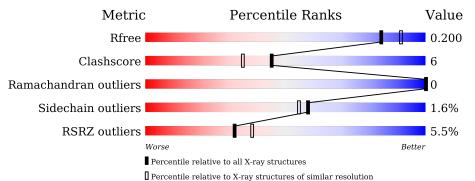
Xtriage (Phenix) EDS buster-report Percentile statistics	:::::::::::::::::::::::::::::::::::::::	1.8.5 (274361), CSD as541be (2020) 1.13 3.0 1.1.7 (2018) 20231227.v01 (using entries in the PDB archive December 27th 2023) 9.0.003 (Gargrove) 1.0.11 Engh & Huber (2001)
Ideal geometry (DNA, RNA) Validation Pipeline (wwPDB-VP)		Parkinson et al. (1996) 2.39

# 1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:  $X\text{-}RAY \, DIFFRACTION$ 

The reported resolution of this entry is 1.95 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	$egin{array}{c} { m Whole \ archive} \ (\#{ m Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries,\ resolution\ range}({ m \AA}))$
$R_{free}$	164625	3187 (1.96-1.96)
Clashscore	180529	3412 (1.96-1.96)
Ramachandran outliers	177936	3390 (1.96-1.96)
Sidechain outliers	177891	3390 (1.96-1.96)
RSRZ outliers	164620	3186 (1.96-1.96)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower bar indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions <=5% The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain	
1	А	289	6% 89%	10%



#### 8J1M

## 2 Entry composition (i)

There are 6 unique types of molecules in this entry. The entry contains 2217 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

• Molecule 1 is a protein called Putative membrane protein.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
1	А	289	Total 2028	C 1320	N 337	O 357	S 14	0	6	0

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
А	95	CYS	ALA	variant	UNP A0A0H3LM39
А	214	CYS	ALA	variant	UNP A0A0H3LM39

• Molecule 2 is CADMIUM ION (three-letter code: CD) (formula: Cd) (labeled as "Ligand of Interest" by depositor).

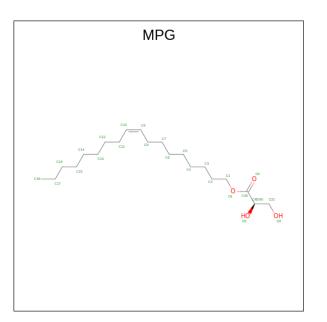
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	А	3	Total Cd 3 3	0	0

• Molecule 3 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	А	2	Total Cl 2 2	0	0

• Molecule 4 is [(Z)-octadec-9-enyl] (2R)-2,3-bis(oxidanyl)propanoate (three-letter code: MPG) (formula:  $C_{21}H_{40}O_4$ ).





Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	А	1	Total C O 25 21 4	0	0
4	А	1	Total         C         O           25         21         4	0	0
4	А	1	Total         C         O           25         21         4	0	0
4	А	1	Total         C         O           25         21         4	0	0
4	А	1	Total         C         O           25         21         4	0	0

• Molecule 5 is MERCURY (II) ION (three-letter code: HG) (formula: Hg) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	А	1	Total Hg 1 1	0	0

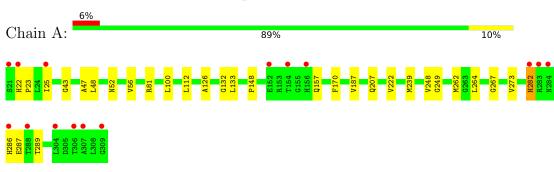
• Molecule 6 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	А	58	Total         O           58         58	0	0



# 3 Residue-property plots (i)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red dot above a residue indicates a poor fit to the electron density (RSRZ > 2). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.



• Molecule 1: Putative membrane protein



## 4 Data and refinement statistics (i)

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants	116.41Å 51.01Å 51.82Å	Depositor
a, b, c, $\alpha$ , $\beta$ , $\gamma$	$90.00^{\circ}$ $113.92^{\circ}$ $90.00^{\circ}$	Depositor
Resolution (Å)	30.44 - 1.95	Depositor
Resolution (A)	30.44 - 1.95	EDS
% Data completeness	92.4 (30.44-1.95)	Depositor
(in resolution range)	85.9 (30.44-1.95)	EDS
R <sub>merge</sub>	(Not available)	Depositor
$R_{sym}$	(Not available)	Depositor
$< I/\sigma(I) > 1$	$0.73 (at 1.95 \text{\AA})$	Xtriage
Refinement program	PHENIX (1.10.1_2155: ???)	Depositor
D D.	0.171 , $0.200$	Depositor
$R, R_{free}$	0.171 , $0.200$	DCC
$R_{free}$ test set	17690 reflections $(10.04%)$	wwPDB-VP
Wilson B-factor $(Å^2)$	30.3	Xtriage
Anisotropy	0.209	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$ , $B_{sol}(Å^2)$	0.34, $52.3$	EDS
L-test for $twinning^2$	$<  L  > = 0.50, < L^2 > = 0.33$	Xtriage
	0.031  for -h+k-l,-l,-k	
Estimated twinning fraction	0.000 for -h-k-l,l,k	Xtriage
	0.018 for -h-2*l,-k,l	
$F_o, F_c$ correlation	0.96	EDS
Total number of atoms	2217	wwPDB-VP
Average B, all atoms $(Å^2)$	40.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 9.09% of the height of the origin peak. No significant pseudotranslation is detected.

<sup>&</sup>lt;sup>2</sup>Theoretical values of  $\langle |L| \rangle$ ,  $\langle L^2 \rangle$  for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.



<sup>&</sup>lt;sup>1</sup>Intensities estimated from amplitudes.

# 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: MPG, CD, HG, CL

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with |Z| > 5 is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mal	Chain	Bond lengths		Bond angles		
	Chain	RMSZ	# Z  > 5	RMSZ	# Z  > 5	
1	А	0.38	0/2082	0.57	0/2843	

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	А	2028	0	2123	24	0
2	А	3	0	0	0	0
3	А	2	0	0	0	0
4	А	125	0	200	6	0
5	А	1	0	0	0	0
6	А	58	0	0	0	0
All	All	2217	0	2323	26	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 6.

All (26) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.



Atom-1	Atom-2	Interatomic	Clash
		distance (Å)	overlap (Å)
1:A:56[A]:VAL:HG12	1:A:248:VAL:HG11	1.53	0.91
1:A:286:HIS:HB3	1:A:289:THR:HG22	1.73	0.69
1:A:22:HIS:HA	1:A:25:ILE:HG22	1.82	0.61
1:A:133[B]:LEU:HD21	4:A:410:MPG:H151	1.84	0.58
1:A:48:LEU:HB2	4:A:407:MPG:H42C	1.86	0.58
1:A:43:GLY:O	1:A:249:GLY:HA3	2.06	0.56
1:A:52:ASN:O	1:A:56[A]:VAL:HG13	2.12	0.50
1:A:187:VAL:HG12	1:A:262:MET:HE3	1.93	0.50
1:A:282:HIS:CE1	1:A:287:GLU:HG2	2.47	0.50
1:A:22:HIS:N	1:A:23:PRO:HD2	2.28	0.48
1:A:112:LEU:HD21	1:A:126:ALA:HA	1.94	0.48
1:A:170:PHE:CD2	1:A:222:VAL:HG21	2.49	0.48
1:A:100[B]:LEU:HD13	1:A:273:VAL:HG11	1.97	0.47
1:A:133[B]:LEU:HD12	1:A:267:GLY:CA	2.45	0.47
1:A:187:VAL:HG12	1:A:262:MET:CE	2.47	0.44
1:A:133[B]:LEU:HD12	1:A:267:GLY:HA2	1.99	0.44
1:A:148:PRO:HA	1:A:157:GLN:O	2.18	0.44
1:A:286:HIS:HB3	1:A:289:THR:CG2	2.45	0.43
4:A:408:MPG:H10	4:A:408:MPG:H131	1.80	0.43
4:A:410:MPG:HX31	4:A:410:MPG:H42C	1.70	0.42
1:A:132:GLY:O	1:A:264:LEU:HA	2.20	0.42
1:A:22:HIS:CD2	1:A:25:ILE:HG21	2.55	0.42
1:A:239:MET:HE2	4:A:406:MPG:H181	2.02	0.41
1:A:48:LEU:HD12	4:A:407:MPG:H62C	2.03	0.41
1:A:47:ALA:O	1:A:56[A]:VAL:HG11	2.22	0.40
1:A:112:LEU:HD23	1:A:112:LEU:HA	1.87	0.40

There are no symmetry-related clashes.

## 5.3 Torsion angles (i)

#### 5.3.1 Protein backbone (i)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	А	293/289~(101%)	287~(98%)	6~(2%)	0	100 100



There are no Ramachandran outliers to report.

#### 5.3.2 Protein sidechains (i)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	А	199/199~(100%)	196~(98%)	3~(2%)	60 57	

All (3) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	А	81	ARG
1	А	207	GLN
1	А	282	HIS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	Res	Type
1	А	22	HIS
1	А	282	HIS

#### 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)

Of 11 ligands modelled in this entry, 6 are monoatomic - leaving 5 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with |Z| > 2 is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Turne	Chain	Res	Link	Bond lengths			Bond angles		
10101	Type	Unam	nes	LIIIK	Counts	RMSZ	# Z >2	Counts	RMSZ	# Z >2
4	MPG	А	409	-	24,24,24	0.93	1 (4%)	$24,\!25,\!25$	1.24	2 (8%)
4	MPG	А	407	-	24,24,24	0.98	1 (4%)	24,25,25	1.43	2 (8%)
4	MPG	А	408	-	24,24,24	0.95	1 (4%)	24,25,25	1.40	2 (8%)
4	MPG	А	410	-	24,24,24	0.96	1 (4%)	24,25,25	1.35	2 (8%)
4	MPG	А	406	-	24,24,24	0.98	1 (4%)	$24,\!25,\!25$	1.26	2 (8%)

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
4	MPG	А	409	-	-	14/25/25/25	-
4	MPG	А	407	-	-	11/25/25/25	-
4	MPG	А	408	-	-	11/25/25/25	-
4	MPG	А	410	-	-	15/25/25/25	-
4	MPG	А	406	-	-	11/25/25/25	-

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Ζ	$Observed(\text{\AA})$	Ideal(Å)
4	А	407	MPG	O1-CX3	3.88	1.41	1.33
4	А	410	MPG	O1-CX3	3.81	1.41	1.33
4	А	406	MPG	O1-CX3	3.81	1.41	1.33
4	А	408	MPG	O1-CX3	3.77	1.41	1.33
4	А	409	MPG	O1-CX3	3.66	1.40	1.33

All (10) bond angle outliers are listed below:



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Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
4	А	408	MPG	O1-CX3-CXD	4.90	121.44	111.68
4	А	410	MPG	O1-CX3-CXD	4.66	120.97	111.68
4	А	407	MPG	O1-CX3-CXD	4.61	120.87	111.68
4	А	406	MPG	O1-CX3-CXD	4.30	120.25	111.68
4	А	409	MPG	O1-CX3-CXD	4.15	119.96	111.68
4	А	408	MPG	O1-CX3-O4	-2.46	119.47	124.13
4	А	410	MPG	O1-CX3-O4	-2.46	119.48	124.13
4	А	406	MPG	O1-CX3-O4	-2.35	119.68	124.13
4	А	407	MPG	O1-CX3-O4	-2.34	119.70	124.13
4	А	409	MPG	O1-CX3-O4	-2.23	119.91	124.13

There are no chirality outliers.

All $(62$	) torsion	outlier	s are list	ed below:
Mol	Chain	Res	Type	Aton

Mol	Chain	Res	Type	Atoms
4	А	406	MPG	CXD-CX3-O1-C1
4	А	406	MPG	O4-CX3-O1-C1
4	А	406	MPG	O1-CX3-CXD-O2
4	А	406	MPG	O4-CX3-CXD-O2
4	А	406	MPG	O1-CX3-CXD-C21
4	А	406	MPG	O4-CX3-CXD-C21
4	А	407	MPG	O3-C21-CXD-O2
4	А	407	MPG	O3-C21-CXD-CX3
4	А	408	MPG	CXD-CX3-O1-C1
4	А	408	MPG	O4-CX3-O1-C1
4	А	409	MPG	O3-C21-CXD-O2
4	А	409	MPG	O3-C21-CXD-CX3
4	А	409	MPG	O1-CX3-CXD-O2
4	А	410	MPG	CXD-CX3-O1-C1
4	А	410	MPG	O4-CX3-O1-C1
4	А	410	MPG	O3-C21-CXD-O2
4	А	410	MPG	O1-CX3-CXD-C21
4	А	410	MPG	O4-CX3-CXD-C21
4	А	409	MPG	O4-CX3-O1-C1
4	А	409	MPG	CXD-CX3-O1-C1
4	А	410	MPG	C1-C2-C3-C4
4	А	408	MPG	C1-C2-C3-C4
4	А	410	MPG	C11-C12-C13-C14
4	А	409	MPG	C14-C15-C16-C17
4	А	410	MPG	C3-C4-C5-C6
4	А	409	MPG	C6-C7-C8-C9
4	А	410	MPG	C12-C13-C14-C15
4	А	408	MPG	C13-C14-C15-C16
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Mol	Chain	Res	Type	Atoms
4	А	409	MPG	C4-C5-C6-C7
4	А	408	MPG	C11-C12-C13-C14
4	А	406	MPG	C4-C5-C6-C7
4	А	408	MPG	C4-C5-C6-C7
4	А	407	MPG	C12-C13-C14-C15
4	А	407	MPG	C1-C2-C3-C4
4	А	406	MPG	C5-C6-C7-C8
4	А	407	MPG	C13-C14-C15-C16
4	А	410	MPG	C10-C11-C12-C13
4	А	409	MPG	O4-CX3-CXD-O2
4	А	408	MPG	C2-C3-C4-C5
4	А	410	MPG	C4-C5-C6-C7
4	А	406	MPG	O1-C1-C2-C3
4	А	409	MPG	O1-C1-C2-C3
4	А	407	MPG	C3-C4-C5-C6
4	А	406	MPG	C2-C3-C4-C5
4	А	407	MPG	O4-CX3-O1-C1
4	А	410	MPG	O4-CX3-CXD-O2
4	А	410	MPG	O1-C1-C2-C3
4	А	409	MPG	C12-C13-C14-C15
4	А	407	MPG	CXD-CX3-O1-C1
4	А	406	MPG	O3-C21-CXD-O2
4	А	407	MPG	C9-C10-C11-C12
4	А	408	MPG	C3-C4-C5-C6
4	А	409	MPG	C5-C6-C7-C8
4	А	410	MPG	C15-C16-C17-C18
4	А	407	MPG	C10-C11-C12-C13
4	А	409	MPG	C2-C3-C4-C5
4	А	408	MPG	C9-C10-C11-C12
4	А	410	MPG	C7-C8-C9-C10
4	А	408	MPG	C6-C7-C8-C9
4	А	408	MPG	C7-C8-C9-C10
4	А	407	MPG	C7-C8-C9-C10
4	А	409	MPG	C9-C10-C11-C12

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There are no ring outliers.

4 monomers are involved in 6 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	А	407	MPG	2	0
4	А	408	MPG	1	0
4	А	410	MPG	2	0

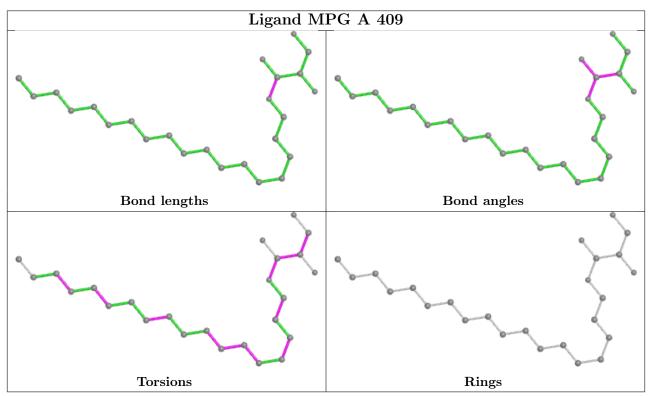
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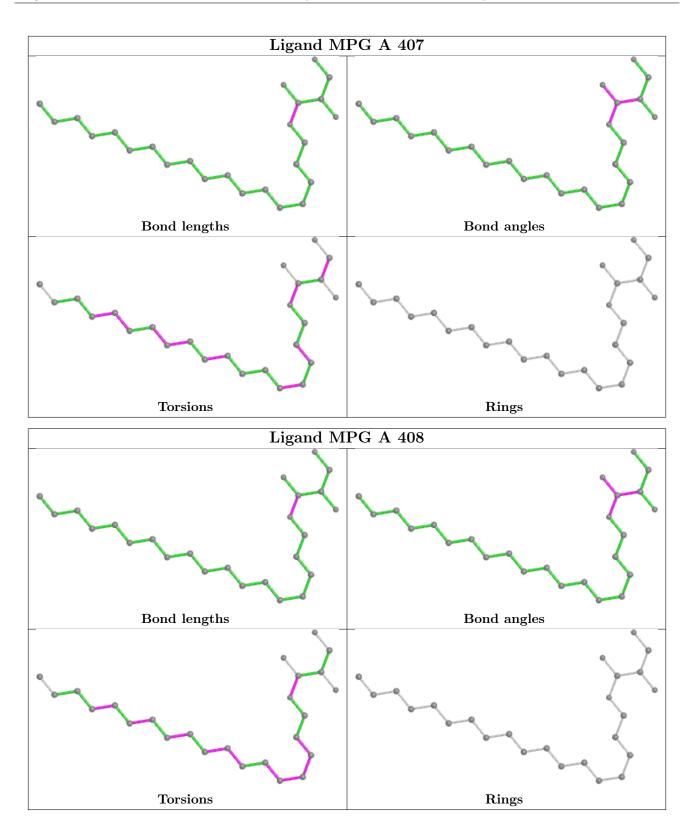
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M	bl	Chain	Res	Type	Clashes	Symm-Clashes
4		А	406	MPG	1	0

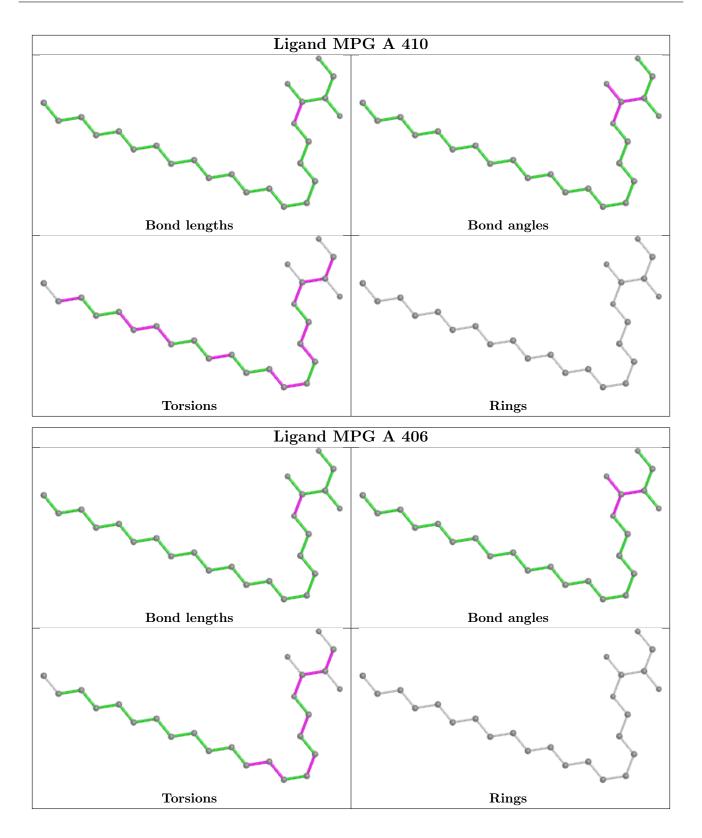
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

## 6.1 Protein, DNA and RNA chains (i)

In the following table, the column labelled '#RSRZ> 2' contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median,  $95^{th}$  percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled 'Q< 0.9' lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ $>$	#RSRZ>2	$OWAB(Å^2)$	Q < 0.9
1	А	289/289~(100%)	0.24	16 (5%) 32 38	19,35,64,86	6 (2%)

All (16) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	А	154	THR	3.8
1	А	283	ARG	3.7
1	А	21	SER	3.7
1	А	306	THR	3.5
1	А	285	GLY	3.3
1	А	288	THR	3.1
1	А	284	ASN	3.0
1	А	282	HIS	2.8
1	А	22	HIS	2.8
1	А	309	GLY	2.7
1	А	286	HIS	2.6
1	А	307	ALA	2.6
1	А	156	HIS	2.5
1	А	304	LEU	2.5
1	А	152	GLU	2.4
1	А	25	ILE	2.1

## 6.2 Non-standard residues in protein, DNA, RNA chains (i)

There are no non-standard protein/DNA/RNA residues in this entry.

## 6.3 Carbohydrates (i)

There are no monosaccharides in this entry.



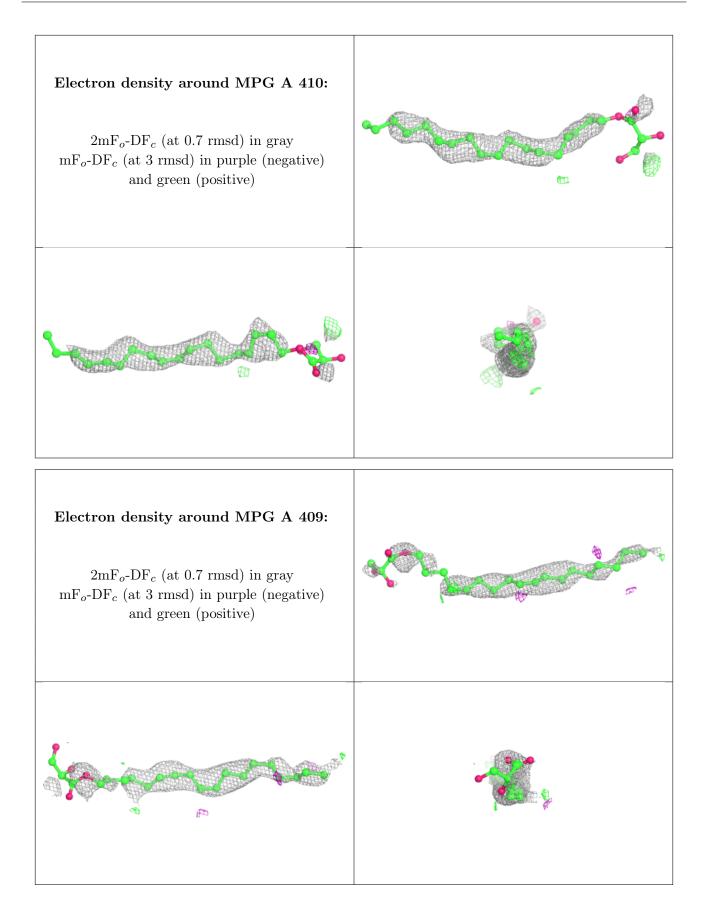
## 6.4 Ligands (i)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median,  $95^{th}$  percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

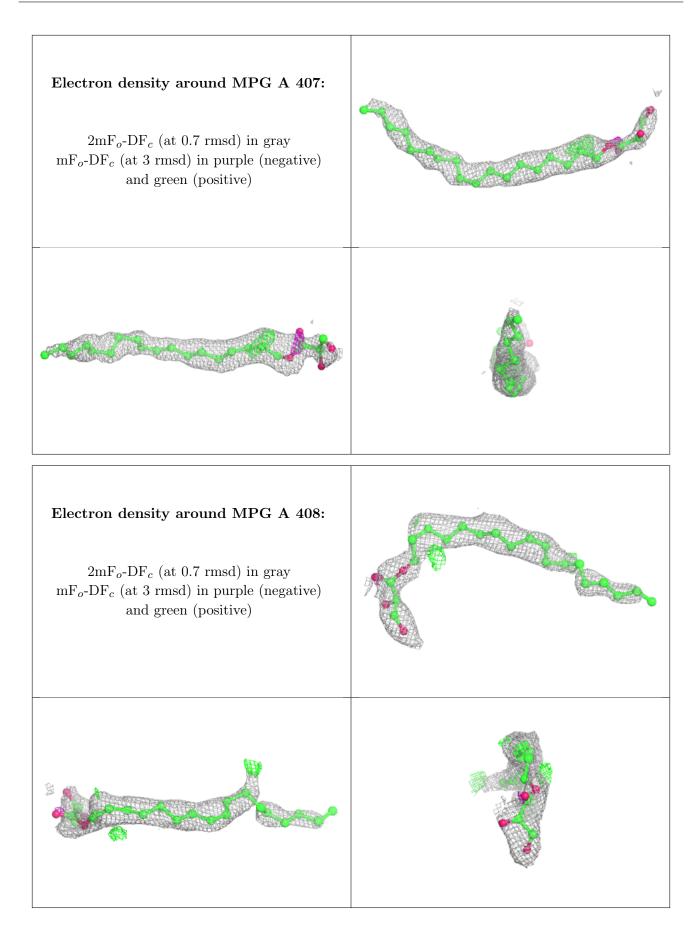
Mol	Type	Chain	Res	Atoms	RSCC	RSR	$B-factors(Å^2)$	Q < 0.9
4	MPG	А	410	25/25	0.72	0.17	52,62,90,93	0
4	MPG	А	409	25/25	0.76	0.17	45,58,91,92	0
4	MPG	А	407	25/25	0.79	0.16	$37,\!53,\!76,\!77$	0
4	MPG	А	408	25/25	0.80	0.14	43,52,74,85	0
4	MPG	А	406	25/25	0.84	0.15	35,44,89,91	0
3	CL	А	405	1/1	0.94	0.10	42,42,42,42	1
3	CL	А	404	1/1	0.96	0.06	44,44,44,44	0
5	HG	А	411	1/1	0.97	0.08	31,31,31,31	1
2	CD	А	403	1/1	0.99	0.02	32,32,32,32	1
2	CD	А	401	1/1	0.99	0.06	36,36,36,36	1
2	CD	А	402	1/1	0.99	0.02	27,27,27,27	1

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

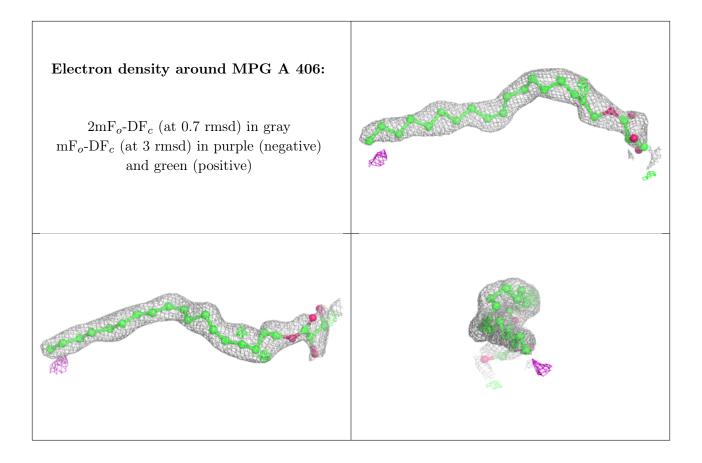




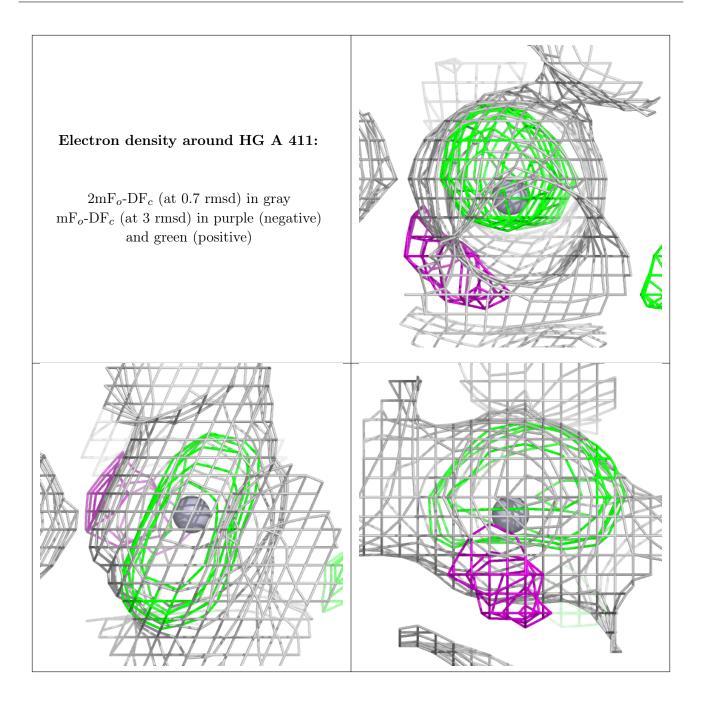




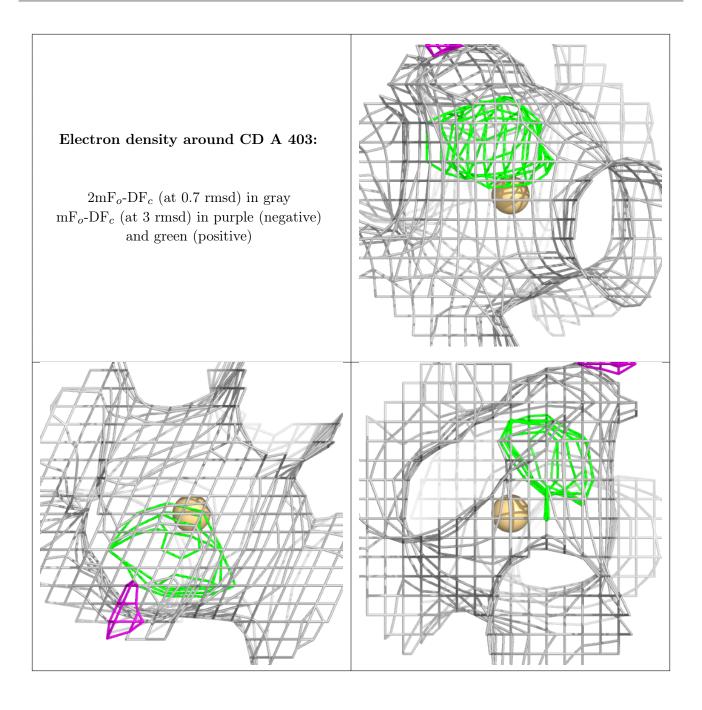




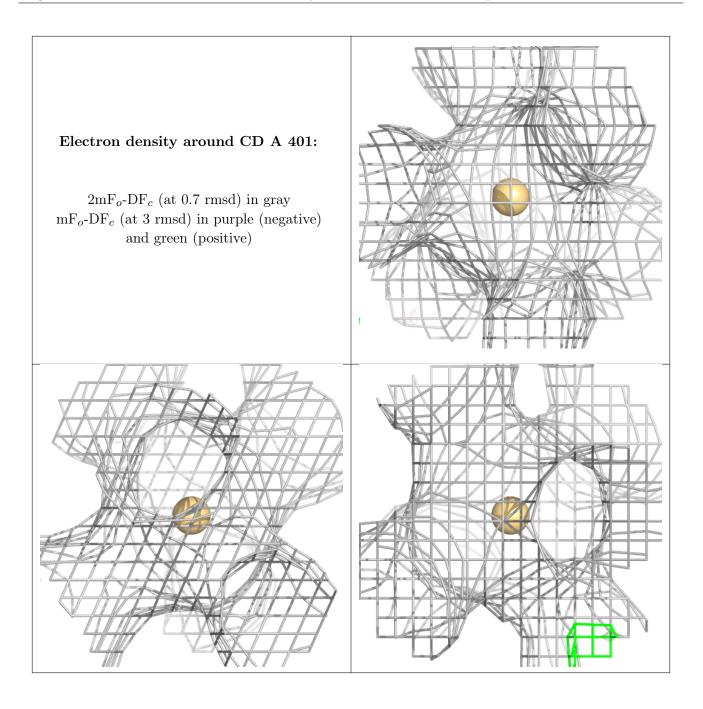




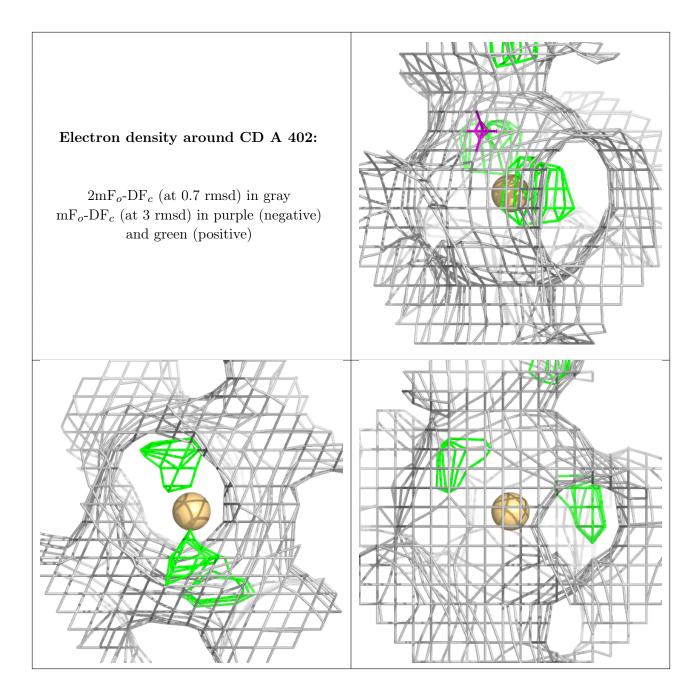












## 6.5 Other polymers (i)

There are no such residues in this entry.

