

Full wwPDB X-ray Structure Validation Report (i)

Mar 3, 2024 – 11:01 PM EST

PDB ID	:	6OZO
Title	:	Crystal structure of Mus musculus (Mm) Endonuclease V in complex with a
		23mer RNA oligo containing an inosine after a 30 min soak in 10 mM Mn2+
Authors	:	Samara, N.L.; Yang, W.
Deposited on	:	2019-05-15
Resolution	:	2.23 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:

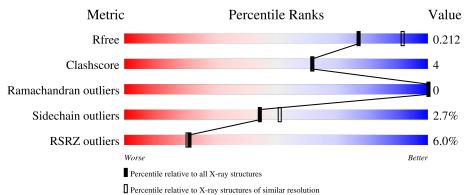
MolProbity Mogul Xtriage (Phenix) EDS	:	4.02b-467 1.8.5 (274361), CSD as541be (2020) 1.13 2.36
buster-report Percentile statistics Refmac	: : :	1.1.7 (2018) 20191225.v01 (using entries in the PDB archive December 25th 2019) 5.8.0158 7.0.044 (Gargrove)
Ideal geometry (DNA, RNA) Validation Pipeline (wwPDB-VP)		Parkinson et al. (1996) 2.36

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 2.23 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	$\begin{array}{c} \textbf{Whole archive} \\ (\#\textbf{Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries,\ resolution\ range}({ m \AA}))$
R_{free}	130704	2391 (2.26-2.22)
Clashscore	141614	2539 (2.26-2.22)
Ramachandran outliers	138981	2489 (2.26-2.22)
Sidechain outliers	138945	2490 (2.26-2.22)
RSRZ outliers	127900	2353 (2.26-2.22)

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	253	2% 88 %	8% ••
1	В	253	5% 85%	11% • •
2	С	23	35%	26%
2	D	23	30% 65%	22% • 9%



6OZO

2 Entry composition (i)

There are 7 unique types of molecules in this entry. The entry contains 5046 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 Endonuclease V.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
1	А	246	Total	С	Ν	Ο	S	0	5	0
1		240	1934	1226	351	349	8			
1	В	245	Total	С	Ν	Ο	S	0	Б	0
1	D	245	1929	1223	353	345	8	0	9	

• Molecule 2 is DNA/RNA hybrid called DNA/RNA (5'-R(*CP*GP*GP*UP*AP*AP*CP*C P*C)-D(P*I)-R(P*AP*UP*AP*UP*GP*CP*AP*UP*GP*CP*AP*UP*U)-3').

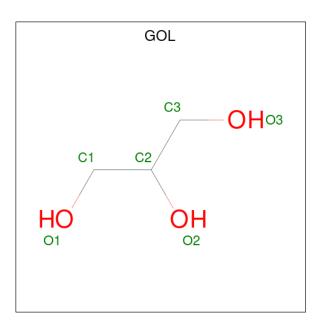
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
2	C	23	Total	С	Ν	Ο	Р	0	2	0
	C	20	495	223	84	165	23	0		
2	Л	91	Total	С	Ν	Ο	Р	0	2	0
	D	D 21	455	204	76	153	22	0		

• Molecule 3 is MANGANESE (II) ION (three-letter code: MN) (formula: Mn) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	А	2	Total Mn 2 2	0	0
3	В	3	Total Mn 4 4	0	1
3	С	3	Total Mn 3 3	0	0
3	D	2	Total Mn 3 3	0	1

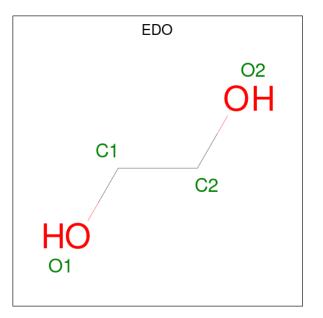
• Molecule 4 is GLYCEROL (three-letter code: GOL) (formula: $C_3H_8O_3$).





Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	А	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 6 & 3 & 3 \end{array}$	0	0
4	А	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 6 & 3 & 3 \end{array}$	0	0

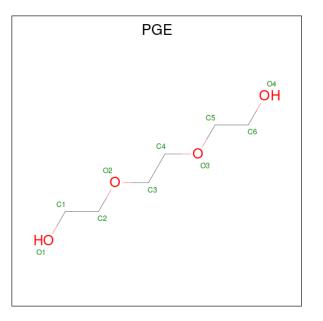
• Molecule 5 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: $C_2H_6O_2$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	А	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 4 & 2 & 2 \end{array}$	0	0
5	В	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 4 & 2 & 2 \end{array}$	0	0



• Molecule 6 is TRIETHYLENE GLYCOL (three-letter code: PGE) (formula: $C_6H_{14}O_4$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	А	1	Total C O 10 6 4	0	0

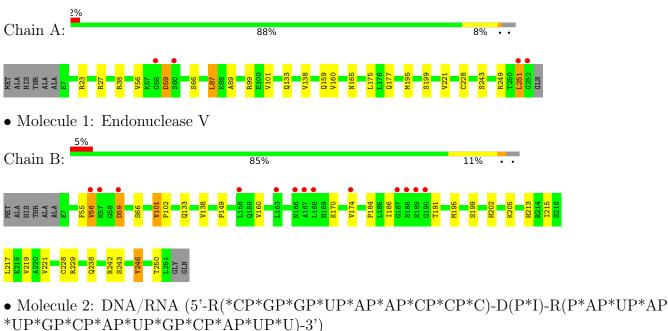
• Molecule 7 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	А	102	Total O 102 102	0	0
7	В	51	Total O 51 51	0	0
7	С	18	Total O 18 18	0	0
7	D	20	TotalO2020	0	1

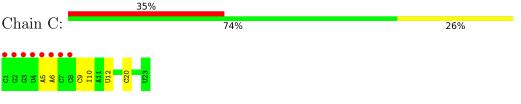


3 Residue-property plots (i)

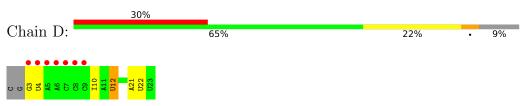
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. 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: Endonuclease V



• Molecule 2: DNA/RNA (5'-R(*CP*GP*GP*UP*AP*AP*CP*CP*C)-D(P*I)-R(P*AP*UP*AP *UP*GP*CP*AP*UP*GP*CP*AP*UP*U)-3')





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants	73.58Å 72.42 Å 155.64 Å	Depositor
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	43.01 - 2.23	Depositor
Resolution (A)	48.99 - 2.23	EDS
% Data completeness	93.5(43.01-2.23)	Depositor
(in resolution range)	$93.6\ (48.99-2.23)$	EDS
R _{merge}	(Not available)	Depositor
R _{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$3.72 (at 2.24 \text{\AA})$	Xtriage
Refinement program	PHENIX (1.10.1_2155: ???)	Depositor
R, R_{free}	0.168 , 0.212	Depositor
II, IIfree	0.169 , 0.212	DCC
R_{free} test set	2019 reflections $(5.25%)$	wwPDB-VP
Wilson B-factor $(Å^2)$	33.9	Xtriage
Anisotropy	0.947	Xtriage
Bulk solvent $k_{sol}(e/Å^3), B_{sol}(Å^2)$	0.32 , 45.1	EDS
L-test for twinning ²	$< L >=0.48, < L^2>=0.31$	Xtriage
Estimated twinning fraction	0.027 for k,h,-l	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	5046	wwPDB-VP
Average B, all atoms $(Å^2)$	56.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The analyses of the Patterson function reveals a significant off-origin peak that is 22.82 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 5.2747e-03. The detected translational NCS is most likely also responsible for the elevated intensity ratio.

²Theoretical 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.



¹Intensities 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: EDO, GOL, MN, PGE

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	Bo	nd lengths	Bond angles		
IVIOI		RMSZ	# Z > 5	RMSZ	# Z > 5	
1	А	0.46	0/1981	0.61	0/2684	
1	В	0.40	0/1981	0.56	0/2681	
2	С	4.85	2/537~(0.4%)	0.94	1/828~(0.1%)	
2	D	4.84	2/492~(0.4%)	0.96	0/757	
All	All	2.23	4/4991~(0.1%)	0.69	1/6950~(0.0%)	

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\operatorname{Observed}(\operatorname{\AA})$	$\mathrm{Ideal}(\mathrm{\AA})$
2	С	12[B]	U	OP3-P	79.06	2.56	1.61
2	С	12[A]	U	OP3-P	79.06	2.56	1.61
2	D	12[B]	U	OP3-P	75.51	2.51	1.61
2	D	12[A]	U	OP3-P	75.51	2.51	1.61

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
2	С	9	С	N1-C2-O2	5.30	122.08	118.90

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	1934	0	1970	17	0
1	В	1929	0	1978	20	0
2	С	495	0	252	3	0
2	D	455	0	229	6	0
3	А	2	0	0	0	0
3	В	4	0	0	0	0
3	С	3	0	0	0	0
3	D	3	0	0	0	0
4	А	12	0	16	0	0
5	А	4	0	6	0	0
5	В	4	0	6	1	0
6	А	10	0	14	0	0
7	А	102	0	0	3	0
7	В	51	0	0	1	0
7	С	18	0	0	0	0
7	D	20	0	0	0	0
All	All	5046	0	4471	41	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 4.

All (41) 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:A:133:GLN:HA	1:A:160:VAL:HG21	1.58	0.84
1:B:133:GLN:HA	1:B:160:VAL:HG21	1.70	0.72
1:B:238:GLN:OE1	1:B:242[A]:ARG:NH1	2.26	0.69
1:A:89:ALA:O	1:A:99:ARG:NH1	2.29	0.64
1:A:195:MET:HG3	1:A:221[A]:VAL:HG21	1.78	0.64
1:A:159:GLN:NE2	1:A:165:ASN:H	1.97	0.62
2:C:5:A:H3'	2:C:6:A:H5"	1.81	0.60
1:A:87:LEU:HD11	1:A:99:ARG:HG3	1.84	0.59
1:B:195:MET:HG2	1:B:217:LEU:HD21	1.86	0.57
1:B:184:PRO:HB2	1:B:186:ILE:HD11	1.87	0.56
1:B:195:MET:HG3	1:B:221:VAL:HG21	1.87	0.55
1:B:138:VAL:H	2:D:10:DI:H1	1.54	0.55
1:B:199:SER:HB2	1:B:228:CYS:SG	2.48	0.54
2:D:21:A:H2'	2:D:22:U:C6	2.42	0.54
1:A:66[A]:SER:OG	1:A:243:SER:HB3	2.10	0.52
1:A:66[B]:SER:HB2	1:A:243:SER:HB3	1.90	0.52
1:A:23:ARG:NH2	7:A:404:HOH:O	2.44	0.51
1:B:229:ARG:NE	7:B:403:HOH:O	2.43	0.51



	A + 0	Interatomic	Clash	
Atom-1	Atom-2	distance (\AA)	overlap (Å)	
1:A:138:VAL:H	2:C:10:DI:H1	1.59	0.50	
2:D:3:G:H5'	2:D:4:U:OP2	2.12	0.50	
1:B:202:HIS:CD2	5:B:304:EDO:HO2	2.29	0.50	
1:A:195:MET:HG3	1:A:221[B]:VAL:HG11	1.94	0.49	
1:A:87:LEU:HD11	1:A:99:ARG:CG	2.42	0.49	
1:B:55:PHE:CD1	2:D:12[A]:U:H4'	2.48	0.47	
1:A:175:LEU:O	1:A:177:GLN:HG2	2.14	0.47	
1:B:56:VAL:HB	1:B:59:ASP:HB2	1.97	0.47	
1:B:66[B]:SER:HB2	1:B:243:SER:HB3	1.98	0.46	
2:D:21:A:H2'	2:D:22:U:H6	1.81	0.45	
1:A:27:ARG:HD2	7:A:489:HOH:O	2.15	0.45	
1:B:66[A]:SER:OG	1:B:243:SER:HB3	2.17	0.45	
1:B:101:VAL:HG12	1:B:102:PRO:HD3	1.98	0.45	
1:A:251:LEU:HD22	1:A:251:LEU:HA	1.88	0.45	
1:A:199:SER:HB2	1:A:228:CYS:SG	2.58	0.44	
1:B:55:PHE:CD1	2:D:12[B]:U:H4'	2.52	0.43	
1:B:246:TYR:HE1	1:B:250:THR:HG21	1.84	0.43	
1:B:215:ILE:HD11	1:B:219:VAL:HG12	2.00	0.43	
1:A:56:VAL:HB	1:A:59:ASP:HB2	2.01	0.43	
1:B:149:PRO:HA	1:B:213:HIS:O	2.20	0.42	
1:B:170:LYS:O	1:B:174:VAL:HG23	2.19	0.42	
1:B:205:LYS:HE3	2:C:20:C:OP2	2.20	0.42	
1:A:23:ARG:NH1	7:A:410:HOH:O	2.53	0.41	

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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	Perce	ntiles	
1	А	249/253~(98%)	240 (96%)	9 (4%)	0	100	100
1	В	248/253~(98%)	242 (98%)	6 (2%)	0	100	100



Continued from previous page...

Mol	Chain	Analysed	d Favoured Allowed		Outliers		
All	All	497/506~(98%)	482 (97%)	15 (3%)	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 side chain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	А	213/215~(99%)	207~(97%)	6 (3%)	43 49
1	В	212/215~(99%)	207~(98%)	5(2%)	49 55
All	All	425/430 (99%)	414 (97%)	11 (3%)	44 52

All (11) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	А	38	ARG
1	А	59	ASP
1	А	87	LEU
1	А	101	VAL
1	А	249	ARG
1	А	251	LEU
1	В	56	VAL
1	В	59	ASP
1	В	101	VAL
1	В	191	THR
1	В	246	TYR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

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 monosaccharides in this entry.

5.6 Ligand geometry (i)

Of 17 ligands modelled in this entry, 12 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).

Mal	Mol Type Chain R		Dec	Link	Bond lengths			Bond angles		
	туре	Unam	nes		Counts	RMSZ	# Z >2	Counts	RMSZ	# Z >2
4	GOL	А	303	-	5,5,5	0.39	0	$5,\!5,\!5$	0.32	0
5	EDO	А	305	-	3,3,3	0.51	0	$2,\!2,\!2$	0.31	0
6	PGE	А	306	-	9,9,9	0.29	0	8,8,8	0.38	0
5	EDO	В	304	-	3,3,3	0.46	0	$2,\!2,\!2$	0.45	0
4	GOL	А	304	-	$5,\!5,\!5$	0.37	0	$5,\!5,\!5$	0.29	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
4	GOL	А	303	-	-	2/4/4/4	-
5	EDO	А	305	-	-	0/1/1/1	-
6	PGE	А	306	-	-	6/7/7/7	-
5	EDO	В	304	-	-	1/1/1/1	-
4	GOL	А	304	-	-	4/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.



There are no chirality outliers.

Mol	Chain	Res	Type	Atoms
4	А	303	GOL	O1-C1-C2-C3
4	А	304	GOL	C1-C2-C3-O3
4	А	304	GOL	O2-C2-C3-O3
6	А	306	PGE	O2-C3-C4-O3
6	А	306	PGE	O3-C5-C6-O4
4	А	304	GOL	O1-C1-C2-C3
4	А	303	GOL	O1-C1-C2-O2
6	А	306	PGE	O1-C1-C2-O2
4	А	304	GOL	O1-C1-C2-O2
6	А	306	PGE	C3-C4-O3-C5
6	А	306	PGE	C6-C5-O3-C4
6	А	306	PGE	C1-C2-O2-C3
5	В	304	EDO	O1-C1-C2-O2

All (13) torsion outliers are listed below:

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mo	Chain	Res	Type	Clashes	Symm-Clashes
5	В	304	EDO	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 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	$\langle RSRZ \rangle$	#RSRZ>2	$OWAB(Å^2)$	Q < 0.9
1	А	246/253~(97%)	0.05	4 (1%) 72 73	24, 39, 75, 116	0
1	В	245/253~(96%)	0.07	13 (5%) 26 26	26, 48, 91, 117	0
2	С	22/23~(95%)	2.38	8 (36%) 0 0	41, 81, 176, 178	0
2	D	20/23~(86%)	2.52	7 (35%) 0 0	39, 64, 191, 192	0
All	All	533/552~(96%)	0.25	32 (6%) 21 21	24, 43, 97, 192	0

All (32) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	D	5	А	13.6
2	С	1	С	12.2
2	D	6	А	10.3
2	D	3	G	10.1
1	А	251	LEU	7.4
2	С	2	G	7.1
2	С	3	G	6.9
2	D	4	U	6.8
2	D	7	С	6.1
1	А	252	GLY	5.9
2	С	5	А	5.7
2	С	7	С	5.3
1	В	57	LYS	5.2
2	С	4	U	5.0
2	D	8	С	4.9
2	С	6	А	4.3
1	В	188	SER	3.7
1	В	59	ASP	3.5
2	С	8	С	3.3
1	В	167	ALA	3.3
1	В	56	VAL	3.3



Mol	Chain	Res	Type	RSRZ
1	А	58	GLY	3.0
1	А	60	SER	3.0
1	В	174	VAL	2.7
1	В	158	LEU	2.5
1	В	190	GLY	2.4
1	В	189	SER	2.2
1	В	168	LEU	2.2
2	D	9	С	2.2
1	В	187	GLY	2.1
1	В	166	ASN	2.1
1	В	163	LEU	2.0

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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.

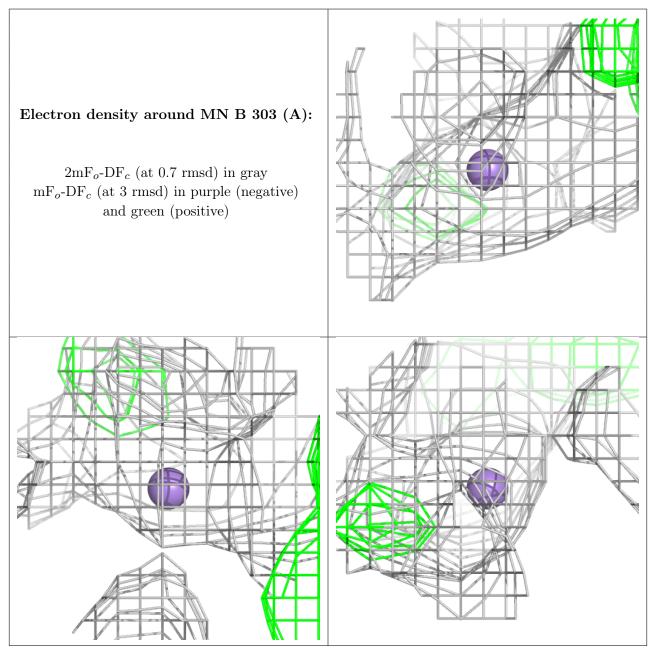
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q < 0.9
3	MN	В	303[A]	1/1	0.48	0.24	49,49,49,49	1
3	MN	В	303[B]	1/1	0.48	0.24	78,78,78,78	1
5	EDO	А	305	4/4	0.75	0.18	67,70,71,72	0
4	GOL	А	303	6/6	0.81	0.17	65,73,78,83	0
4	GOL	А	304	6/6	0.84	0.20	75,86,90,99	0
3	MN	С	103	1/1	0.88	0.14	98,98,98,98	0
3	MN	D	102[A]	1/1	0.88	0.25	61,61,61,61	1
3	MN	D	102[B]	1/1	0.88	0.25	42,42,42,42	1
3	MN	D	101	1/1	0.92	0.13	57,57,57,57	1
5	EDO	В	304	4/4	0.92	0.12	73,75,78,78	0
6	PGE	А	306	10/10	0.92	0.08	63,69,80,81	0
3	MN	А	302	1/1	0.97	0.06	61,61,61,61	1



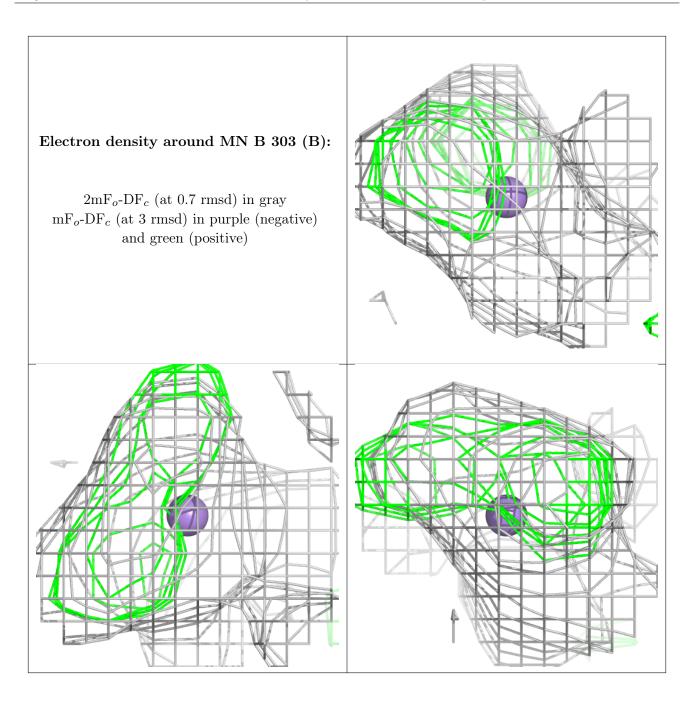
001000	nucu jio		puge					
Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\operatorname{B-factors}(\operatorname{\AA}^2)$	Q < 0.9
3	MN	В	302	1/1	0.99	0.11	$38,\!38,\!38,\!38$	0
3	MN	С	101	1/1	0.99	0.16	36,36,36,36	0
3	MN	С	102	1/1	0.99	0.17	36,36,36,36	1
3	MN	В	301	1/1	0.99	0.13	43,43,43,43	0
3	MN	А	301	1/1	1.00	0.16	37,37,37,37	0

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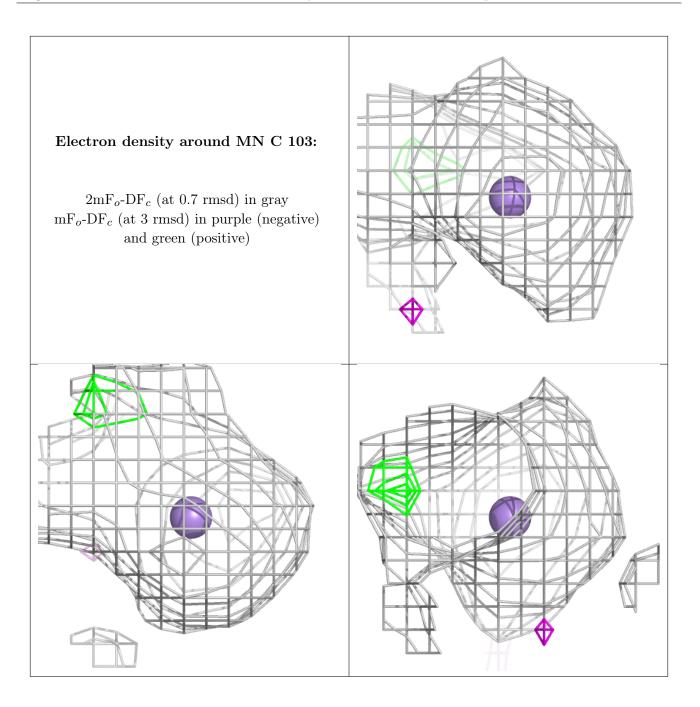
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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



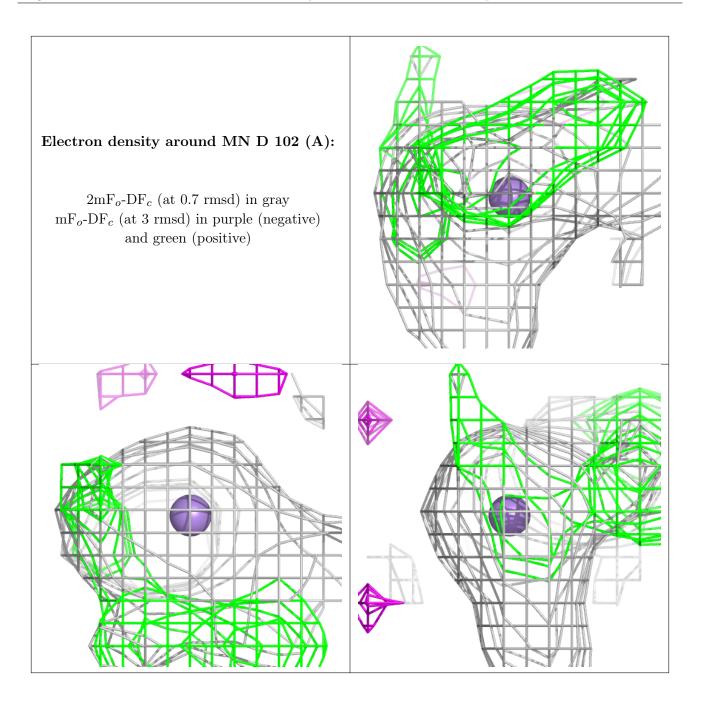




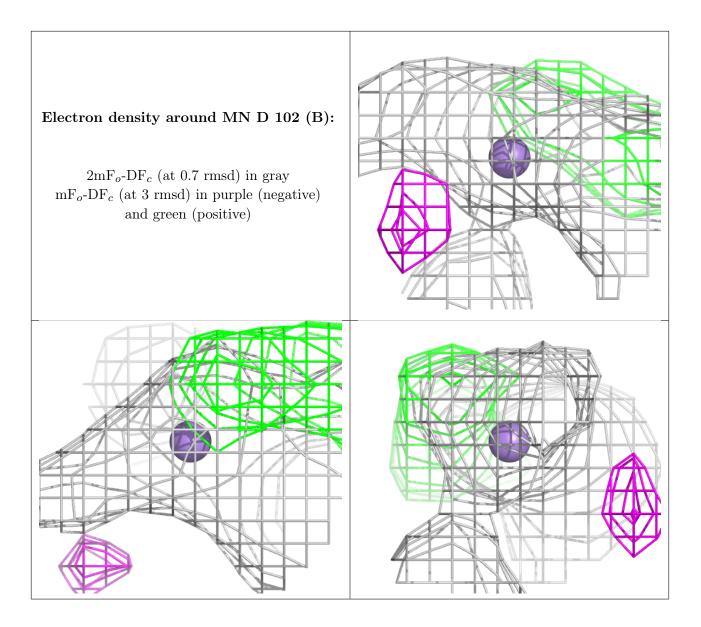




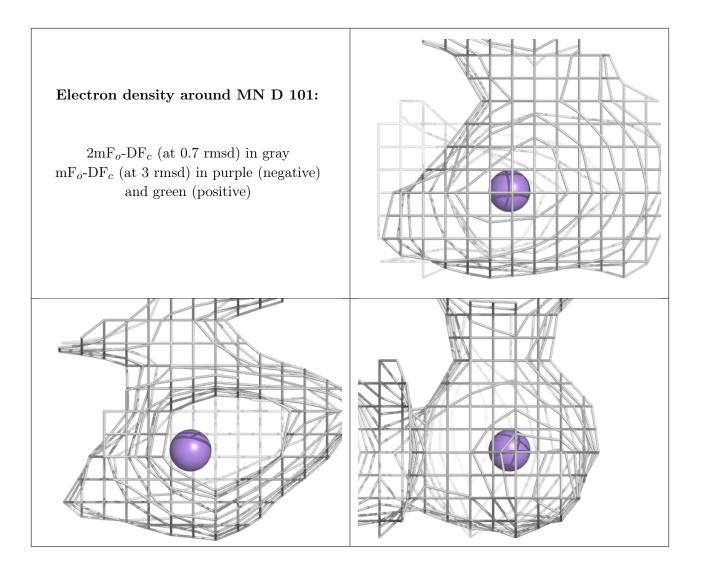




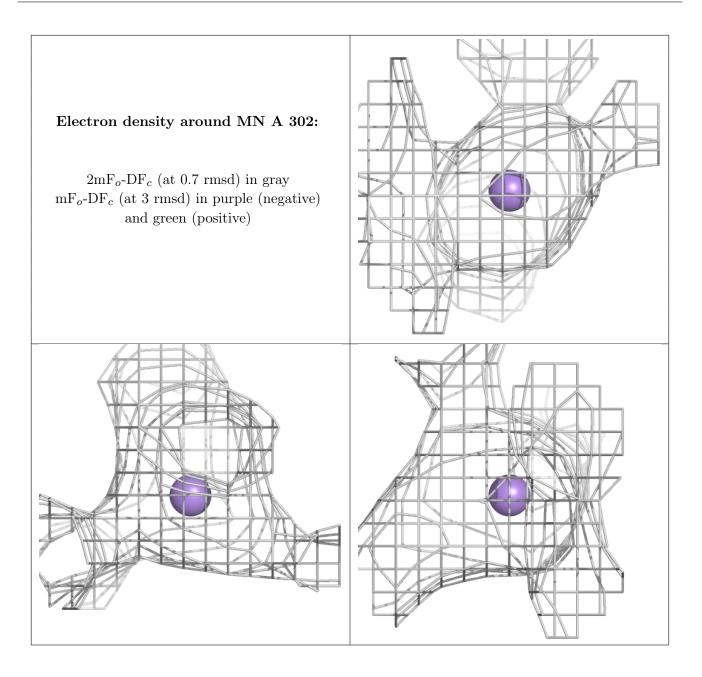




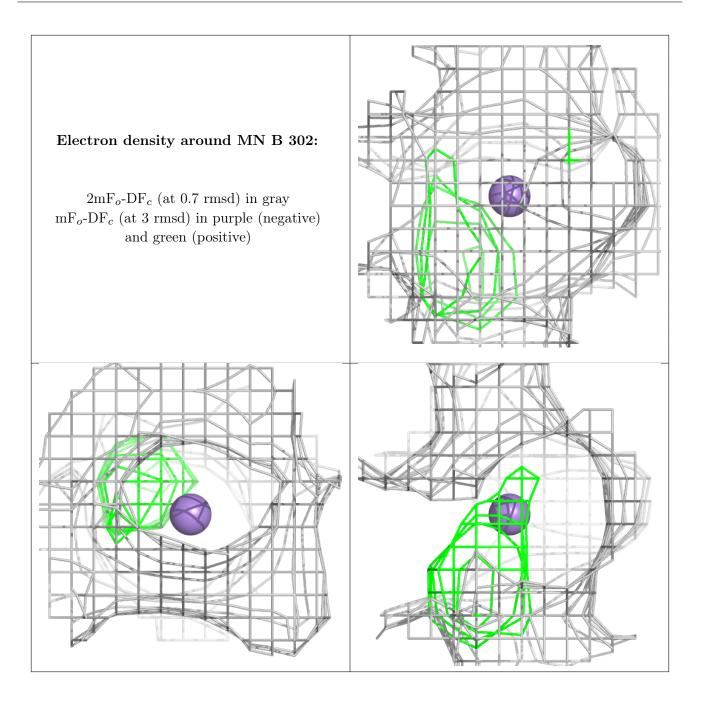




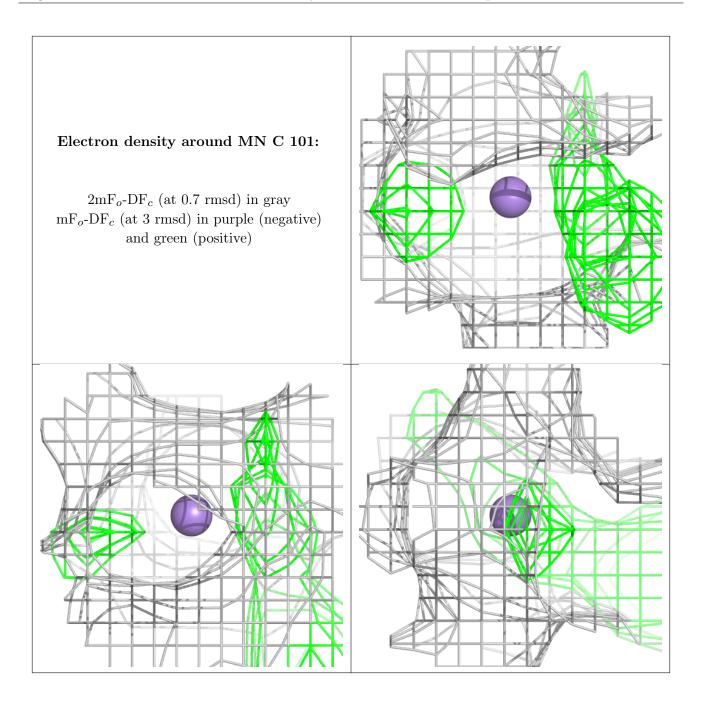




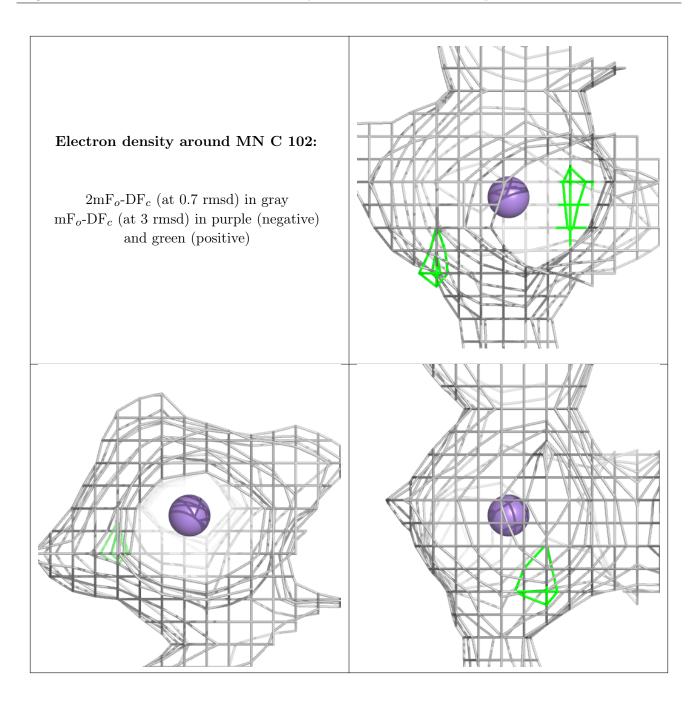




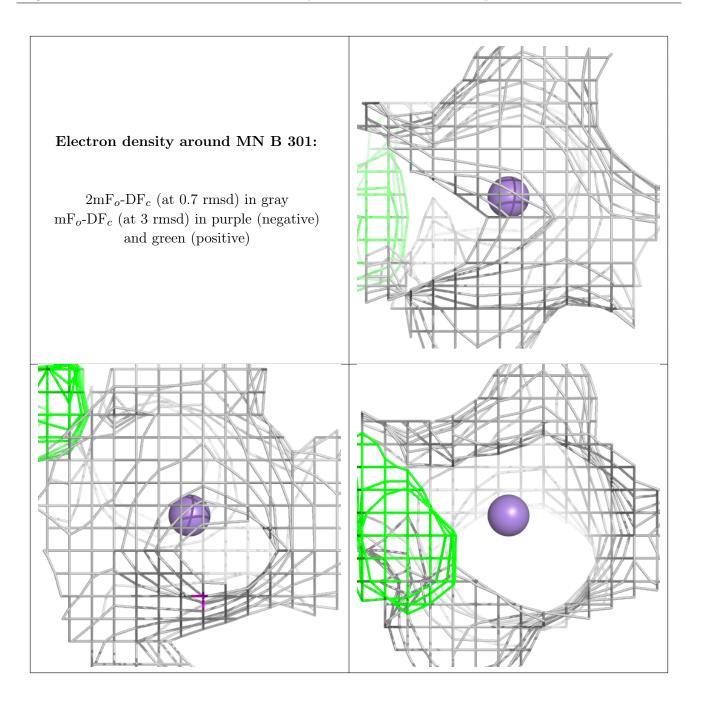




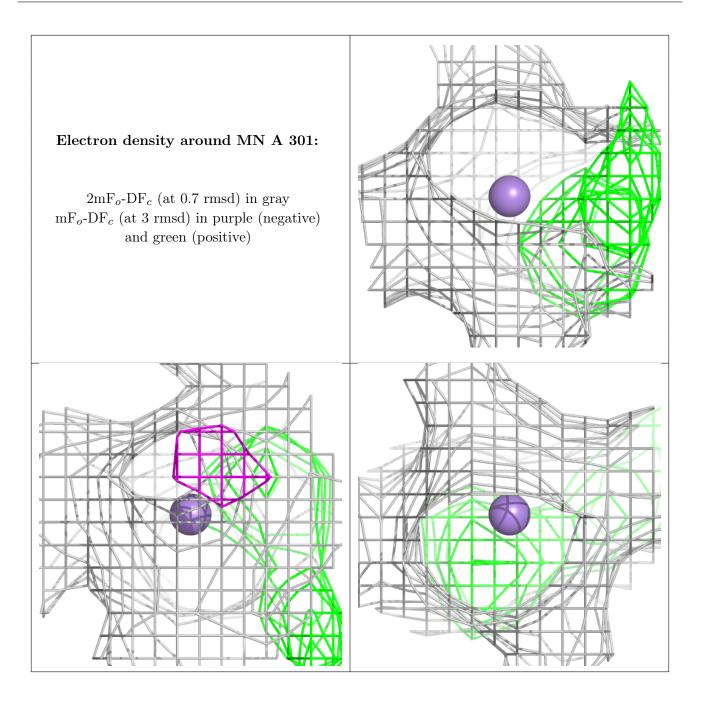












6.5 Other polymers (i)

There are no such residues in this entry.

