



Full wwPDB X-ray Structure Validation Report ⓘ

Jun 26, 2024 – 01:13 am BST

PDB ID : 9F9L
Title : Crystal structure of MUS81-EME1 bound by compound 16.
Authors : Collie, G.W.
Deposited on : 2024-05-07
Resolution : 2.02 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 ⓘ 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:

MolProbity : 4.02b-467
Mogul : 1.8.4, CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.37.1
buster-report : 1.1.7 (2018)
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.37.1

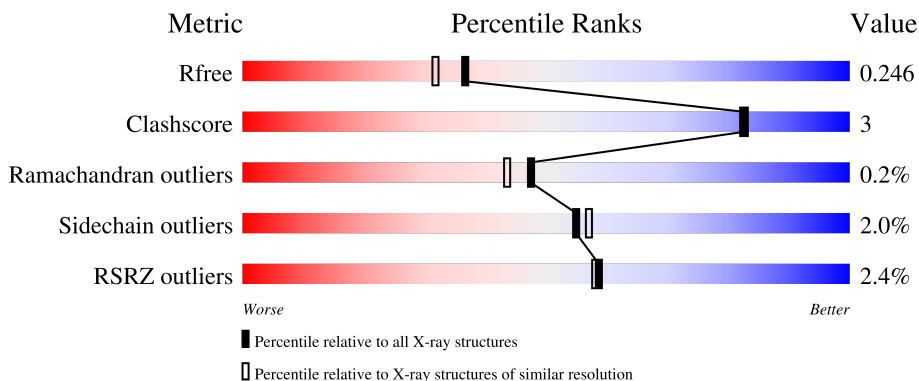
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.02 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)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	10434 (2.04-2.00)
Clashscore	141614	11643 (2.04-2.00)
Ramachandran outliers	138981	11493 (2.04-2.00)
Sidechain outliers	138945	11492 (2.04-2.00)
RSRZ outliers	127900	10220 (2.04-2.00)

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 $\leq 5\%$. 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	A	308	58% 5% 37%
1	C	308	57% 40%
2	B	326	3% 38% 5% 57%
2	D	326	2% 40% 56%

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
4	EOH	A	603	-	-	X	-

2 Entry composition i

There are 6 unique types of molecules in this entry. The entry contains 5417 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 Crossover junction endonuclease MUS81.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	194	1509	953	274	278	4	0	0	0
1	C	185	1466	928	267	267	4	0	0	0

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	244	GLY	-	expression tag	UNP Q96NY9
A	245	SER	-	expression tag	UNP Q96NY9
C	244	GLY	-	expression tag	UNP Q96NY9
C	245	SER	-	expression tag	UNP Q96NY9

- Molecule 2 is a protein called Crossover junction endonuclease EME1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	B	139	1048	666	173	201	8	0	0	0
2	D	145	1081	692	178	203	8	0	0	0

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	245	GLY	-	expression tag	UNP Q96AY2
D	245	GLY	-	expression tag	UNP Q96AY2

- Molecule 3 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

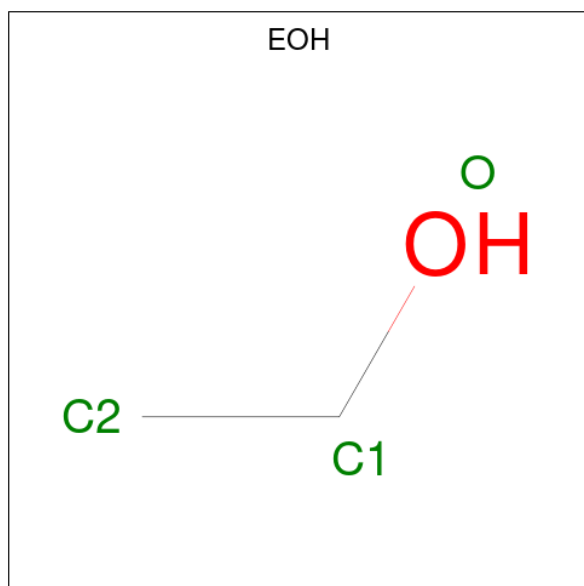
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	2	Total	Mg	0	0
			2	2		

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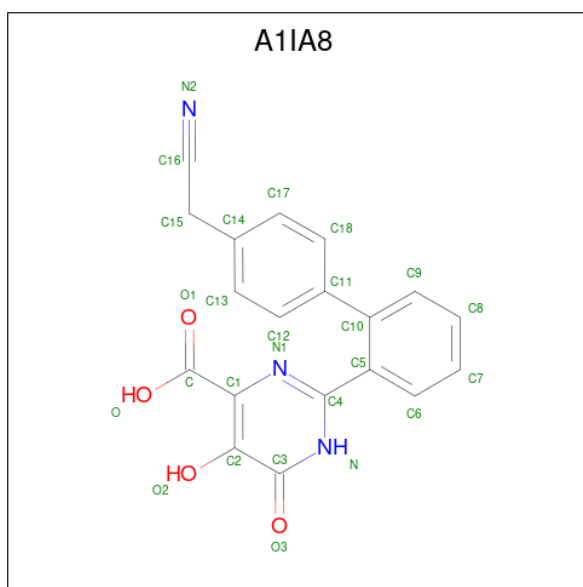
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	C	2	Total	Mg	0	0
			2	2		

- Molecule 4 is ETHANOL (three-letter code: EOH) (formula: C₂H₆O).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	A	1	Total	C	O	0	0
			3	2	1		

- Molecule 5 is 2-[2-[4-(cyanomethyl)phenyl]phenyl]-5-oxidanyl-6-oxidanylidene-1H-pyrimidine-4-carboxylic acid (three-letter code: A1IA8) (formula: C₁₉H₁₃N₃O₄) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	N	O		
5	A	1	26	19	3	4	0	0
5	C	1	26	19	3	4	0	0

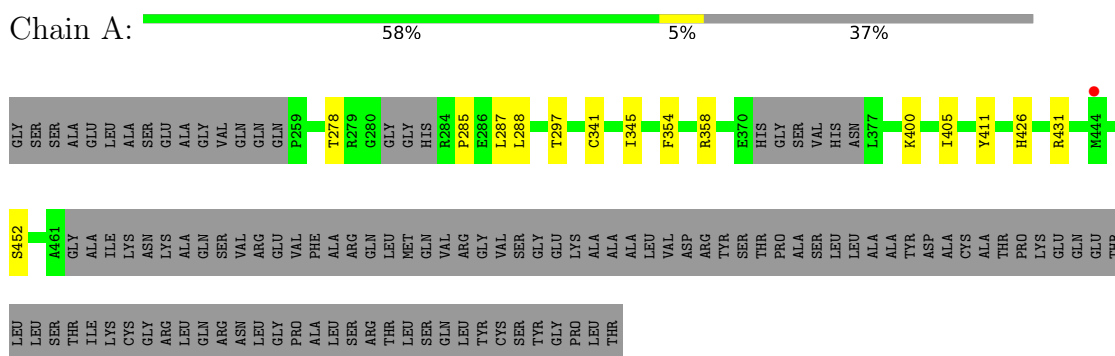
- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	O		
6	A	95	95	95	0	0
6	B	30	30	30	0	0
6	C	96	96	96	0	0
6	D	33	33	33	0	0

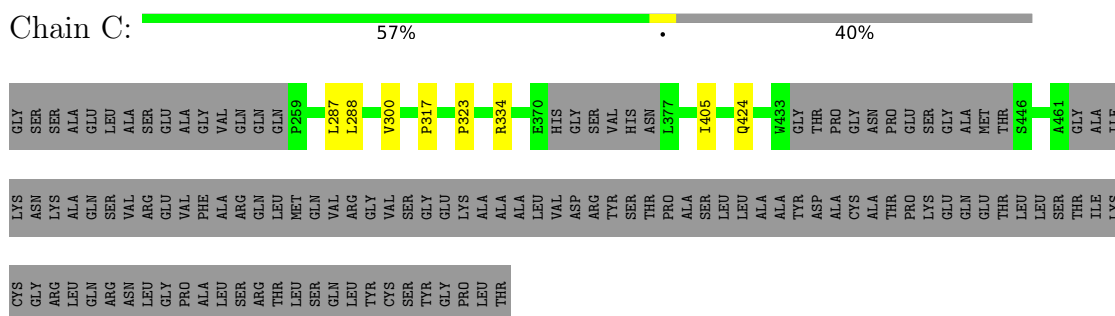
3 Residue-property plots [i](#)

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.

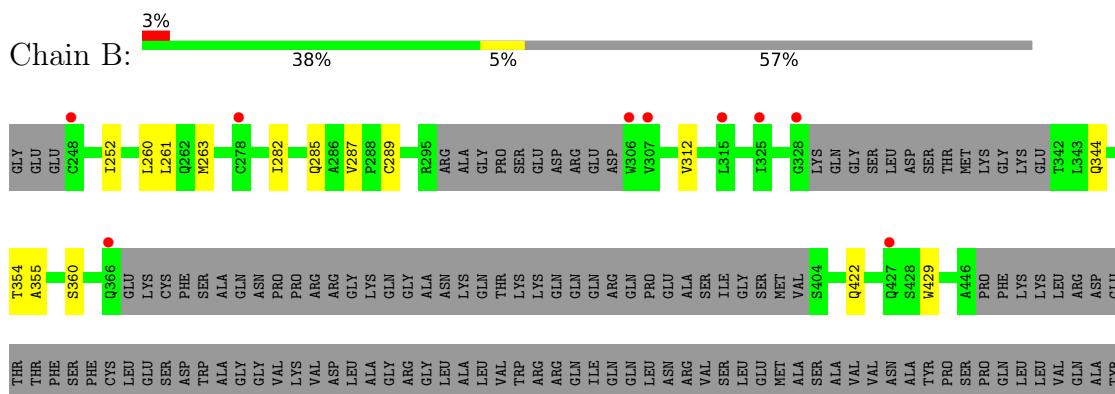
- Molecule 1: Crossover junction endonuclease MUS81



- Molecule 1: Crossover junction endonuclease MUS81




- Molecule 2: Crossover junction endonuclease EME1



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

● Molecule 2: Crossover junction endonuclease EME1

Chain D:  2% 40% 56%

GLY
GLU
GLU
C248
L261
Q262
M283
V281
I282
R295
ARG
ALA
GLY
PRO
GLN
SER
GLY
GLU
ASP
ASP
W306
L313
V314
L315
L316
R317
A318
V322
I325
D326
N327
G328
LYS
GLN
GLY
SER
LEU
ASP
SER
THR
MET
LYS
GLY
LYS
GLU
LEU
I342
V347
G356
V362
I363
V364

B365
B366
GLU
LYS
CYS
PHE
SER
ALA
ALA
ASN
PRO
GLY
PRO
ARG
ARG
GLN
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R405
V406
D414
L415
R452
ASP
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TYR
GLN
GLN
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THR
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PHE
SER
CYS
ASP
LYS
LEU
GLU
SER
ASP
GLN
TRP

ALA
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GLY
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ASP
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ILE
SER
TYR
LEU
MET
ALA
THR
THR
LEU
LEU
PRO
HIS
LEU
SER
SER
LEU
ALA
ASP

4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	70.57Å 75.14Å 83.01Å 90.00° 90.20° 90.00°	Depositor
Resolution (Å)	55.71 – 2.02 55.71 – 2.02	Depositor EDS
% Data completeness (in resolution range)	99.6 (55.71-2.02) 99.6 (55.71-2.02)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.63 (at 2.01Å)	Xtrriage
Refinement program	BUSTER 2.11.8	Depositor
R, R_{free}	0.225 , 0.262 0.215 , 0.246	Depositor DCC
R_{free} test set	2967 reflections (5.22%)	wwPDB-VP
Wilson B-factor (Å ²)	26.0	Xtrriage
Anisotropy	0.388	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.37 , 55.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.34$	Xtrriage
Estimated twinning fraction	0.016 for h,-k,-l	Xtrriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	5417	wwPDB-VP
Average B, all atoms (Å ²)	35.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.36% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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.

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: A1IA8, MG, EOH

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	0.42	0/1538	0.61	0/2090
1	C	0.44	0/1494	0.60	0/2025
2	B	0.34	0/1059	0.50	0/1439
2	D	0.39	0/1094	0.54	0/1488
All	All	0.40	0/5185	0.57	0/7042

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	1509	0	1489	9	0
1	C	1466	0	1460	4	0
2	B	1048	0	1055	6	0
2	D	1081	0	1083	7	0
3	A	2	0	0	0	0
3	C	2	0	0	0	0
4	A	3	0	6	2	0
5	A	26	0	0	0	0
5	C	26	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	A	95	0	0	0	0
6	B	30	0	0	0	0
6	C	96	0	0	0	0
6	D	33	0	0	0	0
All	All	5417	0	5093	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 3.

All (26) 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)
2:D:313:LEU:HD11	2:D:362:VAL:HG23	1.73	0.69
2:D:315:LEU:HD11	2:D:364:VAL:HG23	1.76	0.66
2:B:263:MET:HE2	2:B:429:TRP:HH2	1.63	0.62
1:A:426:HIS:HD2	4:A:603:EOH:H22	1.67	0.59
1:C:287:LEU:HB2	1:C:405:ILE:HD11	1.84	0.59
2:D:347:VAL:HG21	2:D:415:LEU:HD11	1.86	0.57
1:C:317:PRO:HG3	1:C:323:PRO:HB3	1.90	0.53
1:A:426:HIS:HD2	4:A:603:EOH:C2	2.20	0.53
1:A:431:ARG:HG3	1:A:452:SER:OG	2.10	0.52
2:D:313:LEU:HD11	2:D:362:VAL:CG2	2.40	0.52
1:C:334:ARG:NH2	1:C:405:ILE:HD13	2.23	0.52
1:C:287:LEU:HD13	1:C:405:ILE:HD11	1.94	0.50
2:B:260:LEU:HB2	2:B:289:CYS:HA	1.94	0.49
2:B:312:VAL:HG11	2:B:354:THR:HG21	1.94	0.48
1:A:354:PHE:CZ	1:A:358:ARG:HD2	2.49	0.48
2:B:360:SER:HA	2:B:422:GLN:HB2	1.96	0.48
1:A:400:LYS:HG3	1:A:411:TYR:CZ	2.50	0.46
2:B:261:LEU:HD11	2:B:282:ILE:HD12	1.98	0.46
2:B:261:LEU:CD1	2:B:282:ILE:HD12	2.48	0.44
1:A:287:LEU:HB2	1:A:405:ILE:HD11	2.00	0.44
1:A:278:THR:HB	1:A:285:PRO:HG2	2.01	0.43
1:A:400:LYS:HG3	1:A:411:TYR:CE1	2.54	0.42
2:D:261:LEU:CD1	2:D:282:ILE:HD12	2.49	0.42
1:A:341:CYS:O	1:A:345:ILE:HG12	2.20	0.41
2:D:322:VAL:O	2:D:325:ILE:HG13	2.20	0.41
2:D:263:MET:CE	2:D:317:ARG:HE	2.34	0.41

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	A	188/308 (61%)	187 (100%)	1 (0%)	0	100	100
1	C	179/308 (58%)	178 (99%)	1 (1%)	0	100	100
2	B	131/326 (40%)	127 (97%)	3 (2%)	1 (1%)	19	12
2	D	137/326 (42%)	135 (98%)	2 (2%)	0	100	100
All	All	635/1268 (50%)	627 (99%)	7 (1%)	1 (0%)	47	43

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	B	355	ALA

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	A	162/260 (62%)	160 (99%)	2 (1%)	71	75
1	C	159/260 (61%)	156 (98%)	3 (2%)	57	59
2	B	113/275 (41%)	109 (96%)	4 (4%)	36	34
2	D	114/275 (42%)	112 (98%)	2 (2%)	59	61
All	All	548/1070 (51%)	537 (98%)	11 (2%)	55	57

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

Mol	Chain	Res	Type
1	A	288	LEU
1	A	297	THR
2	B	252	ILE
2	B	285	GLN
2	B	287	VAL
2	B	344	GLN
1	C	288	LEU
1	C	300	VAL
1	C	424	GLN
2	D	281	VAL
2	D	414	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (6) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	426	HIS
1	A	448	ASN
1	C	283	HIS
1	C	352	GLN
1	C	392	GLN
2	D	424	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 monosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 7 ligands modelled in this entry, 4 are monoatomic - leaving 3 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	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
4	EOH	A	603	-	2,2,2	0.43	0	1,1,1	0.59	0
5	A1IA8	A	604	3	26,28,28	0.40	0	32,39,39	0.42	0
5	A1IA8	C	603	3	26,28,28	0.32	0	32,39,39	0.66	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
5	A1IA8	A	604	3	-	3/14/15/15	0/3/3/3
5	A1IA8	C	603	3	-	6/14/15/15	0/3/3/3

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (9) torsion outliers are listed below:

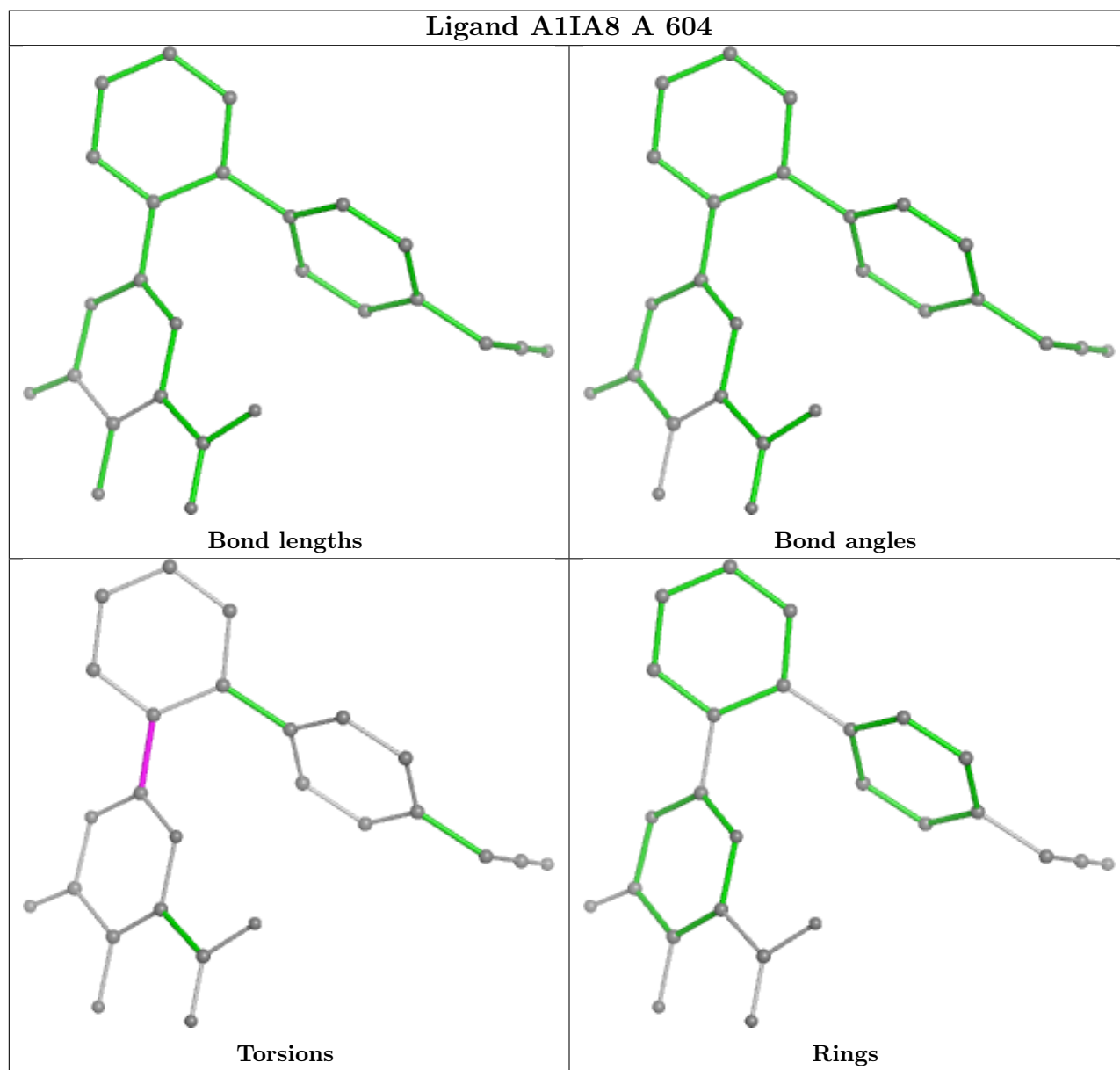
Mol	Chain	Res	Type	Atoms
5	C	603	A1IA8	O-C-C1-C2
5	C	603	A1IA8	O-C-C1-N1
5	C	603	A1IA8	O1-C-C1-C2
5	A	604	A1IA8	N1-C4-C5-C10
5	C	603	A1IA8	N-C4-C5-C6
5	A	604	A1IA8	N-C4-C5-C10
5	C	603	A1IA8	N-C4-C5-C10
5	A	604	A1IA8	N1-C4-C5-C6
5	C	603	A1IA8	N1-C4-C5-C10

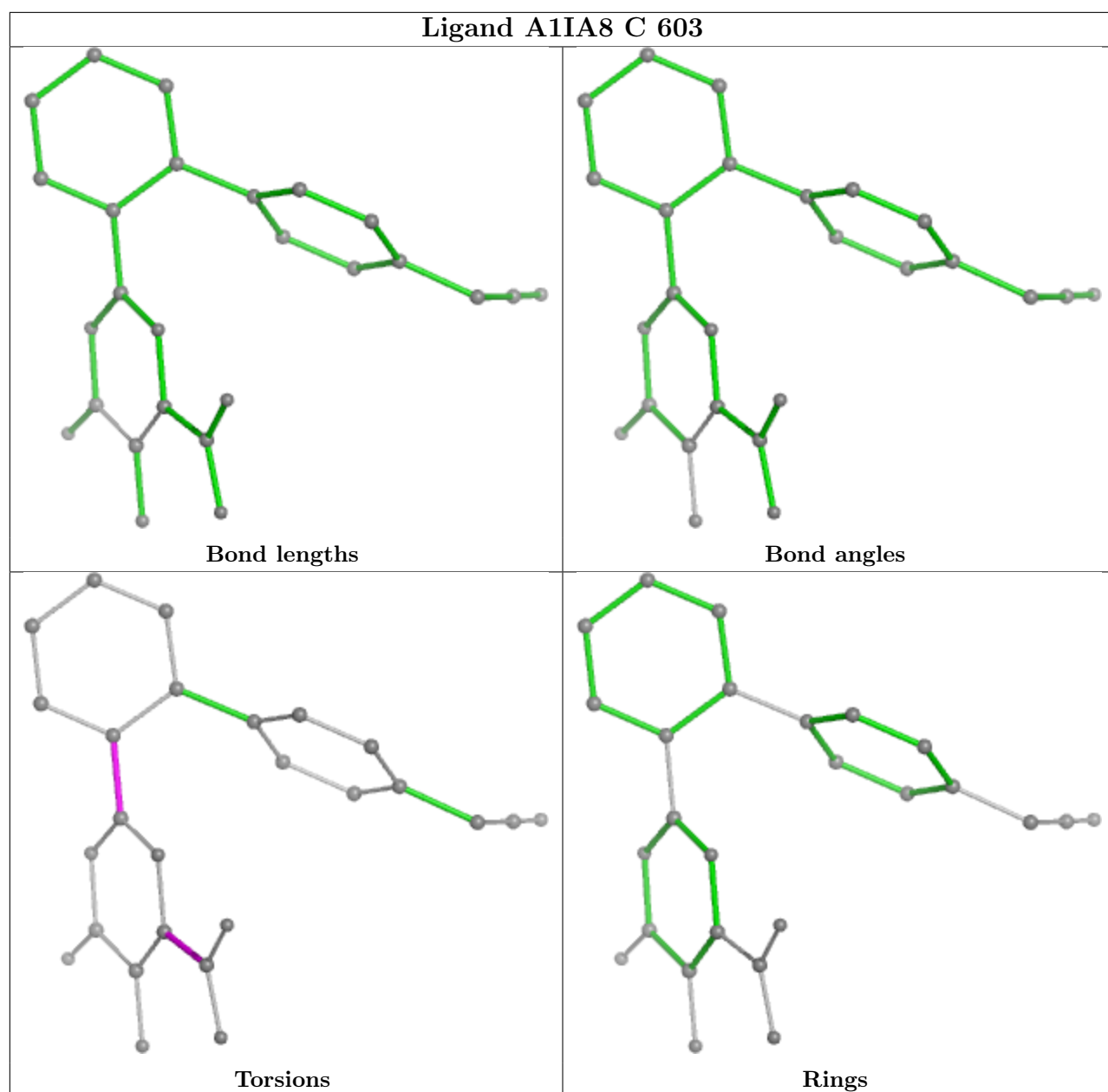
There are no ring outliers.

1 monomer is involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	A	603	EOH	2	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.





5.7 Other polymers [\(i\)](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [\(i\)](#)

There are no chain breaks in this entry.

6 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, 95th 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	A	194/308 (62%)	-0.21	1 (0%) 91 91	17, 30, 50, 59	0
1	C	185/308 (60%)	-0.32	0 100 100	16, 26, 44, 53	0
2	B	139/326 (42%)	0.24	9 (6%) 18 18	25, 42, 64, 75	0
2	D	145/326 (44%)	0.05	6 (4%) 37 37	21, 37, 56, 71	0
All	All	663/1268 (52%)	-0.09	16 (2%) 59 58	16, 33, 56, 75	0

All (16) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	B	248	CYS	3.7
2	D	406	VAL	3.4
2	D	325	ILE	3.3
1	A	444	MET	3.0
2	B	306	TRP	2.9
2	D	322	VAL	2.6
2	D	356	GLY	2.5
2	B	325	ILE	2.5
2	B	328	GLY	2.4
2	D	326	ASP	2.3
2	B	427	GLN	2.3
2	D	318	ALA	2.3
2	B	315	LEU	2.3
2	B	307	VAL	2.3
2	B	278	CYS	2.2
2	B	366	GLN	2.0

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](#)

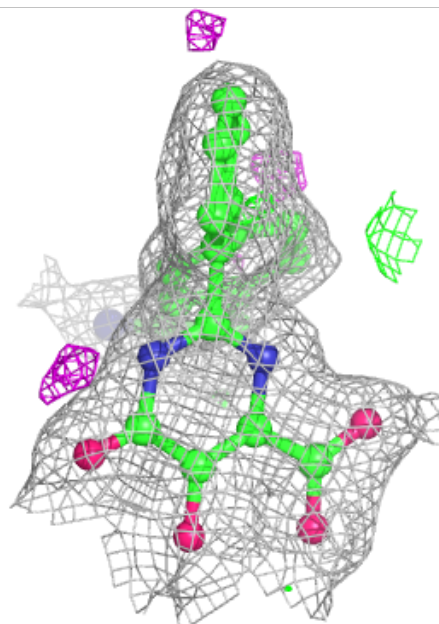
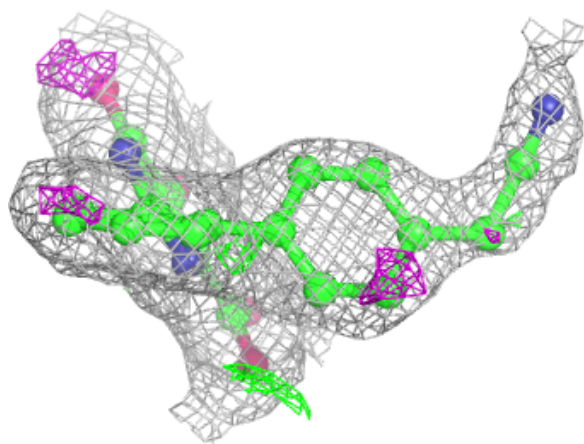
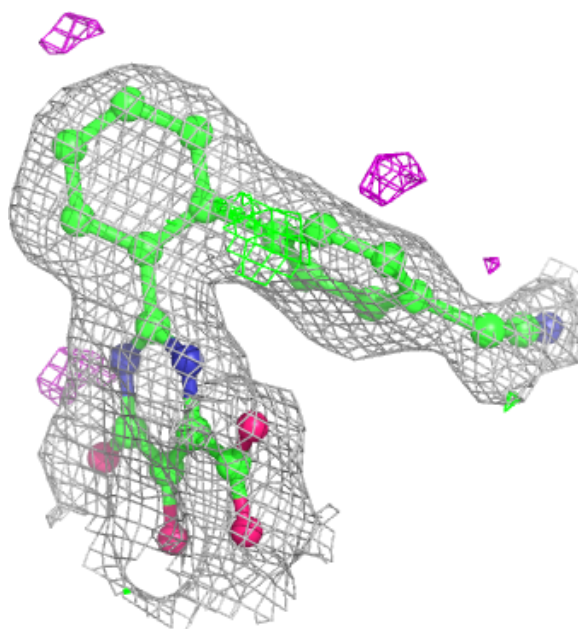
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists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

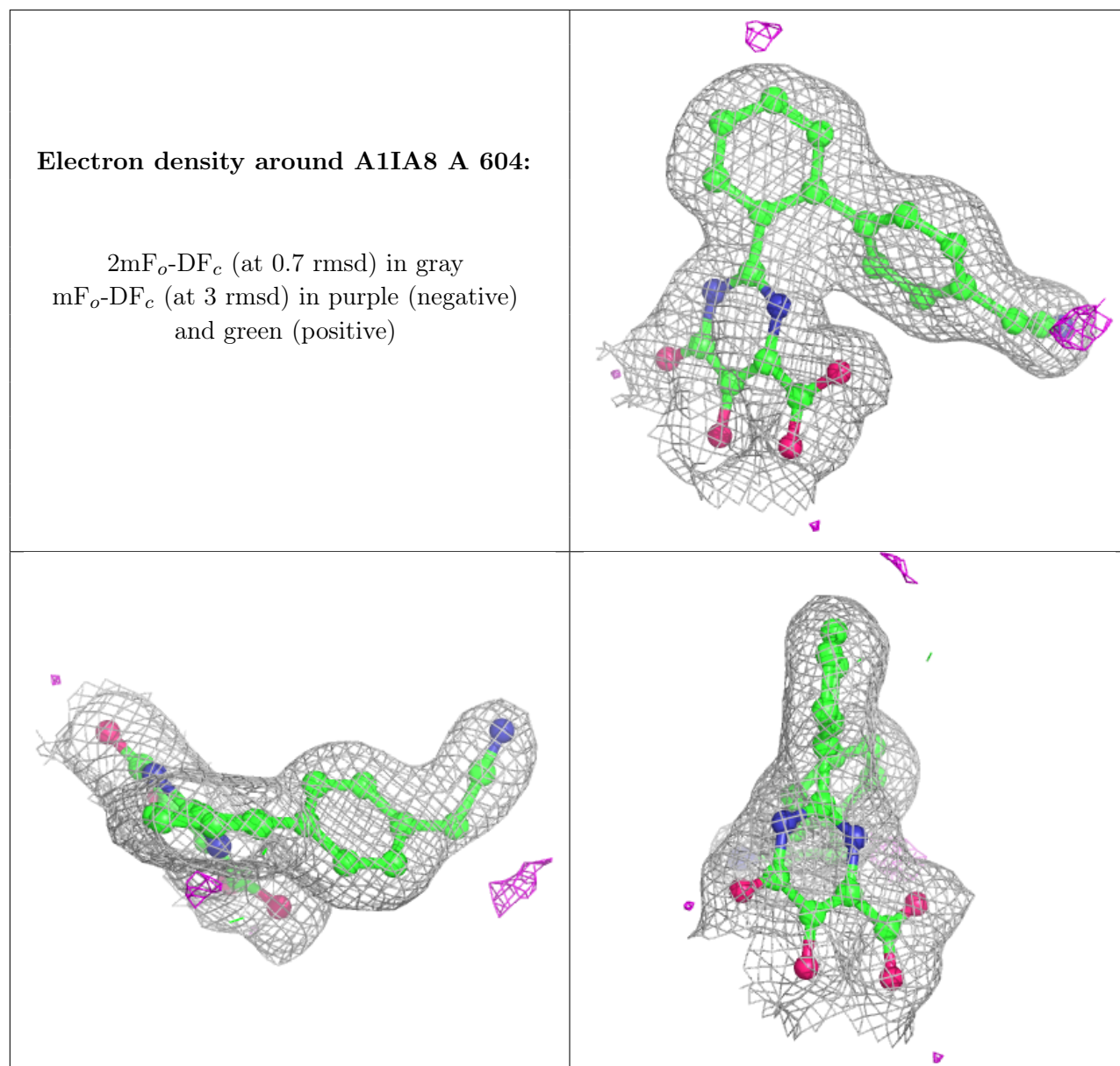
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
5	A1IA8	C	603	26/26	0.94	0.12	24,28,37,39	0
5	A1IA8	A	604	26/26	0.96	0.10	26,27,30,32	0
3	MG	A	601	1/1	0.96	0.06	20,20,20,20	0
3	MG	C	602	1/1	0.97	0.08	27,27,27,27	0
4	EOH	A	603	3/3	0.98	0.17	22,22,22,22	0
3	MG	C	601	1/1	0.98	0.09	17,17,17,17	0
3	MG	A	602	1/1	0.98	0.07	25,25,25,25	0

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.

Electron density around A1IA8 C 603:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





6.5 Other polymers [i](#)

There are no such residues in this entry.