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Full wwPDB X-ray Structure Validation Report (i)

Aug 27, 2023 – 04:26 PM EDT

PDB ID	:	3IU1
Title	:	Crystal Structure of human type-I N-myristoyltransferase with bound myristoyl-CoA
Authors	:	Qiu, W.; Hutchinson, A.; Wernimont, A.; Lin, Y.-H.; Kania, A.; Ravichandran, M.; Kozieradzki, I.; Cossar, D.; Schapira, M.; Arrowsmith, C.H.; Bountra, C.; Weigelt, J.; Edwards, A.M.; Wyatt, P.G.; Ferguson, M.A.J.; Frearson, J.A.; Brand, S.Y.; Robinson, D.A.; Bochkarev, A.; Hui, R.; Structural Genomics Consortium (SGC)
Deposited on	:	2009-08-29
Resolution	:	1.42 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 (i)) were used in the production of this report:

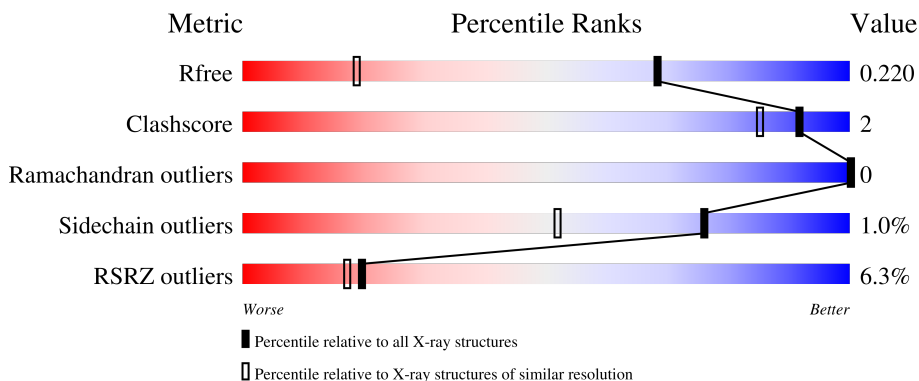|		
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.35
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)

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 1.42 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	Percentile Ranks	Value
Rfree		0.220
Clashscore		2
Ramachandran outliers		0
Sidechain outliers		1.0%
RSRZ outliers		6.3%

Worse *Better*

▌ Percentile relative to all X-ray structures
❙ Percentile relative to X-ray structures of similar resolution

Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R$_{free}$	130704	2579 (1.44-1.40)
Clashscore	141614	2696 (1.44-1.40)
Ramachandran outliers	138981	2632 (1.44-1.40)
Sidechain outliers	138945	2631 (1.44-1.40)
RSRZ outliers	127900	2528 (1.44-1.40)

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	A	383	7% / 95%
1	B	383	6% / 97%

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard

Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.35

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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	MYA	A	1001	X	-	-	-
2	MYA	B	2001	X	-	-	-

2 Entry composition ⓘ

There are 3 unique types of molecules in this entry. The entry contains 7773 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.
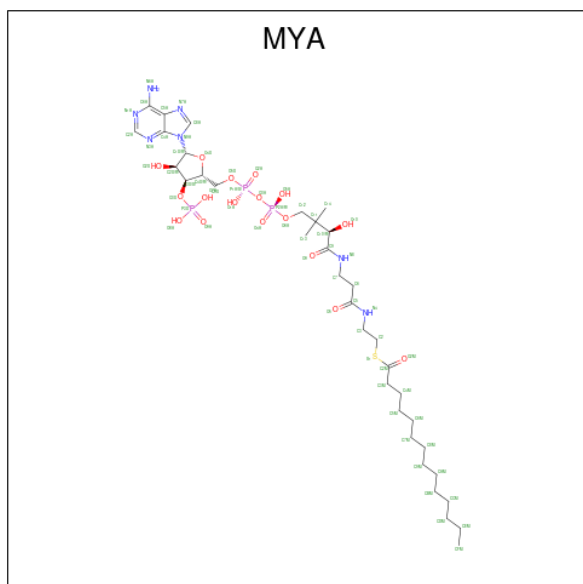
- Molecule 1 is a protein called Glycylpeptide N-tetradecanoyltransferase 1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	380	Total	C	N	O	S	0	13	0
			3183	2069	529	569	16			
1	B	382	Total	C	N	O	S	0	17	0
			3231	2099	545	571	16			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	114	GLY	-	expression tag	UNP P30419
B	114	GLY	-	expression tag	UNP P30419

- Molecule 2 is TETRADECANOYL-COA (three-letter code: MYA) (formula: $C_{35}H_{62}N_7O_{17}P_3S$).

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
2	A	1	Total	C	N	O	P	S	0	0
			63	35	7	17	3	1		

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Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
2	B	1	Total 63	C 35	N 7	O 17	P 3	S 1	0	0

- Molecule 3 is water.

| Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	600	Total 600	O 600	0	0
3	B	633	Total 633	O 633	0	0

3 Residue-property plots ⓘ

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: Glycylpeptide N-tetradecanoyltransferase 1
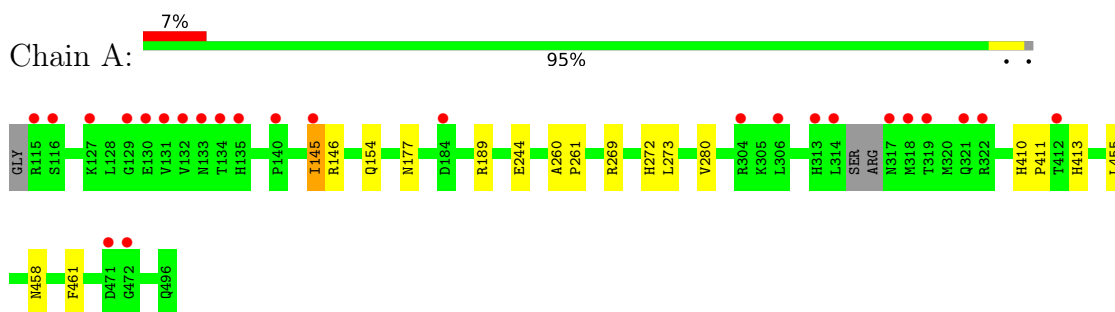
• Molecule 1: Glycylpeptide N-tetradecanoyltransferase 1
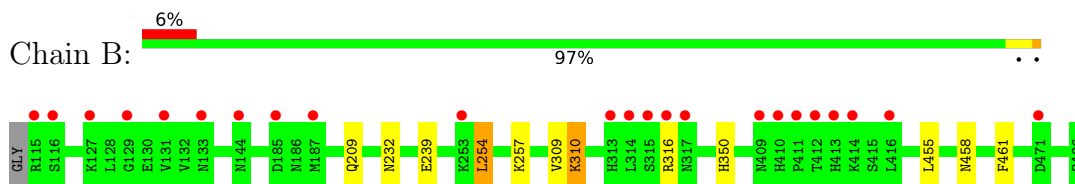
4   Data and refinement statistics   ⓘ

Property	Value	Source
Space group	P 2 21 21	Depositor
Cell constants a, b, c, α, β, γ	58.28Å 78.06Å 178.65Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	19.78 – 1.42 19.78 – 1.42	Depositor EDS
% Data completeness (in resolution range)	100.0 (19.78-1.42) 95.7 (19.78-1.42)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	0.04	Depositor
$< I/\sigma(I) >$ [1]	1.34 (at 1.42Å)	Xtriage
Refinement program	REFMAC 5.5.0072	Depositor
R, R_{free}	0.198 , 0.223 0.196 , 0.220	Depositor DCC
R_{free} test set	7306 reflections (4.99%)	wwPDB-VP
Wilson B-factor (Å^2)	11.9	Xtriage
Anisotropy	0.062	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.34 , 39.7	EDS
L-test for twinning[2]	$< \|L\| > = 0.48, < L^2 > = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.96	EDS
Total number of atoms	7773	wwPDB-VP
Average B, all atoms (Å^2)	15.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 15.72% of the height of the origin peak. No significant pseudotranslation is detected.*

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[1]Intensities estimated from amplitudes.

[2]Theoretical values of $< \|L\| >$, $< L^2 >$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality ⓘ

5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: MYA

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	0.36	0/3310	0.51	0/4493
1	B	0.34	0/3373	0.51	0/4579
All	All	0.35	0/6683	0.51	0/9072

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 ⓘ

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	3183	0	3200	14	0
1	B	3231	0	3256	7	0
2	A	63	0	58	0	0
2	B	63	0	58	0	0
3	A	600	0	0	0	0
3	B	633	0	0	1	0
All	All	7773	0	6572	21	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 2.

All (21) 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:232[B]:ASN:OD1	1:B:239[B]:GLU:HG2	1.92	0.70
1:A:145[A]:ILE:HD13	1:A:273:LEU:HG	1.84	0.59
1:A:458:ASN:HA	1:A:461:PHE:CE2	2.42	0.54
1:A:145[A]:ILE:HG12	1:A:146:ARG:N	2.26	0.51
1:A:410:HIS:HD2	1:A:413:HIS:H	1.60	0.49
1:A:410:HIS:CD2	1:A:413:HIS:H	2.32	0.48
1:A:145[A]:ILE:HD12	1:A:272:HIS:CB	2.45	0.46
1:A:145[A]:ILE:HD12	1:A:272:HIS:HB2	1.98	0.46
1:B:458:ASN:HA	1:B:461:PHE:CE2	2.50	0.46
1:B:209[A]:GLN:HG3	3:B:676:HOH:O	2.15	0.46
1:B:232[B]:ASN:OD1	1:B:239[B]:GLU:CG	2.64	0.45
1:A:244:GLU:HG2	1:A:280:VAL:CG1	2.47	0.45
1:A:145[A]:ILE:HG23	1:A:273:LEU:HD23	1.97	0.44
1:A:410:HIS:HA	1:A:411:PRO:HD3	1.90	0.44
1:A:260:ALA:HB3	1:A:261:PRO:HD3	2.02	0.41
1:A:145[A]:ILE:HD11	1:A:269:ARG:O	2.20	0.41
1:B:309:VAL:O	1:B:310:LYS:HG2	2.21	0.41
1:A:177:ASN:O	1:A:189:ARG:HD2	2.21	0.41
1:B:254:LEU:HD23	1:B:257:LYS:HD2	2.03	0.41
1:A:244:GLU:HG2	1:A:280:VAL:HG13	2.03	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	A	389/383 (102%)	379 (97%)	10 (3%)	0	100	100
1	B	397/383 (104%)	386 (97%)	11 (3%)	0	100	100
All	All	786/766 (103%)	765 (97%)	21 (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 sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	358/348 (103%)	354 (99%)	4 (1%)	73	48
1	B	363/348 (104%)	359 (99%)	4 (1%)	73	48
All	All	721/696 (104%)	713 (99%)	8 (1%)	76	48

All (8) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	145[A]	ILE
1	A	145[B]	ILE
1	A	154	GLN
1	A	455	LEU
1	B	254	LEU
1	B	310	LYS
1	B	316	ARG
1	B	455	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (7) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	135	HIS
1	A	147	GLN
1	A	410	HIS
1	A	475	GLN
1	B	359	GLN
1	B	409	ASN
1	B	458	ASN

5.3.3 RNA (i)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

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

5.5 Carbohydrates ⓘ

There are no monosaccharides in this entry.

5.6 Ligand geometry ⓘ

2 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	MYA	A	1001	-	50,65,65	1.09	5 (10%)	65,91,91	1.67	15 (23%)
2	MYA	B	2001	-	50,65,65	1.04	4 (8%)	65,91,91	1.71	14 (21%)

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	MYA	A	1001	-	1/1/12/14	11/44/80/80	0/3/3/3
2	MYA	B	2001	-	1/1/12/14	13/44/80/80	0/3/3/3

All (9) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	1001	MYA	P2A-O4A	3.51	1.62	1.52
2	B	2001	MYA	P2A-O4A	3.14	1.61	1.52
2	A	1001	MYA	C5A-N7A	-2.94	1.33	1.39
2	B	2001	MYA	P2A-O5A	-2.86	1.48	1.56
2	A	1001	MYA	P2A-O5A	-2.83	1.48	1.56
2	B	2001	MYA	C5A-N7A	-2.82	1.33	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	1001	MYA	C6A-N1A	-2.41	1.34	1.37
2	B	2001	MYA	C6A-N1A	-2.29	1.34	1.37
2	A	1001	MYA	C4A-N9A	-2.00	1.32	1.38

All (29) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	B	2001	MYA	C10-C9-N8	-5.16	106.30	116.58
2	A	1001	MYA	C10-C9-N8	-4.53	107.56	116.58
2	B	2001	MYA	C14-C11-C10	4.50	116.62	108.82
2	A	1001	MYA	C14-C11-C10	4.07	115.87	108.82
2	B	2001	MYA	N3A-C2A-N1A	-3.98	121.28	128.82
2	A	1001	MYA	C5A-C4A-N3A	-3.94	120.03	127.41
2	A	1001	MYA	N3A-C2A-N1A	-3.86	121.51	128.82
2	B	2001	MYA	C5A-C4A-N3A	-3.83	120.22	127.41
2	B	2001	MYA	C13-C11-C10	-3.67	102.45	108.82
2	A	1001	MYA	C13-C11-C10	-3.35	103.01	108.82
2	B	2001	MYA	O10-C10-C11	3.26	117.94	110.25
2	A	1001	MYA	O10-C10-C11	3.17	117.72	110.25
2	B	2001	MYA	C6-C7-N8	-2.89	106.06	111.90
2	A	1001	MYA	C6-C7-N8	-2.81	106.22	111.90
2	A	1001	MYA	N9A-C4A-N3A	2.77	132.86	127.09
2	B	2001	MYA	N9A-C4A-N3A	2.75	132.81	127.09
2	A	1001	MYA	O5X-P1A-O1A	2.70	112.60	106.15
2	B	2001	MYA	O5X-P1A-O1A	2.63	112.42	106.15
2	A	1001	MYA	C2A-N1A-C6A	2.36	121.38	113.17
2	B	2001	MYA	C2A-N1A-C6A	2.34	121.29	113.17
2	A	1001	MYA	N6A-C6A-N1A	2.27	120.19	117.01
2	A	1001	MYA	N9A-C8A-N7A	-2.27	109.11	113.39
2	B	2001	MYA	N9A-C8A-N7A	-2.27	109.12	113.39
2	B	2001	MYA	N6A-C6A-N1A	2.10	119.94	117.01
2	A	1001	MYA	C8A-N7A-C5A	2.09	108.02	104.24
2	B	2001	MYA	O9-C9-C10	2.09	127.42	121.06
2	A	1001	MYA	O5A-P2A-O4A	2.08	115.07	108.50
2	A	1001	MYA	C2-C3-N4	-2.06	108.09	112.42
2	B	2001	MYA	C8A-N7A-C5A	2.05	107.96	104.24

All (2) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
2	A	1001	MYA	C10
2	B	2001	MYA	C10

All (24) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	1001	MYA	C5-C6-C7-N8
2	A	1001	MYA	O10-C10-C9-N8
2	A	1001	MYA	O10-C10-C9-O9
2	A	1001	MYA	C9-C10-C11-C12
2	A	1001	MYA	C9-C10-C11-C13
2	A	1001	MYA	C9-C10-C11-C14
2	A	1001	MYA	O10-C10-C11-C12
2	A	1001	MYA	O10-C10-C11-C13
2	A	1001	MYA	O10-C10-C11-C14
2	B	2001	MYA	O10-C10-C9-N8
2	B	2001	MYA	O10-C10-C9-O9
2	B	2001	MYA	C9-C10-C11-C12
2	B	2001	MYA	C9-C10-C11-C13
2	B	2001	MYA	C9-C10-C11-C14
2	B	2001	MYA	O10-C10-C11-C12
2	B	2001	MYA	O10-C10-C11-C13
2	B	2001	MYA	O10-C10-C11-C14
2	B	2001	MYA	C5-C6-C7-N8
2	A	1001	MYA	C11-C10-C9-N8
2	B	2001	MYA	C10-C11-C12-O6A
2	A	1001	MYA	C11-C10-C9-O9
2	B	2001	MYA	C11-C10-C9-O9
2	B	2001	MYA	C11-C10-C9-N8
2	B	2001	MYA	C14-C11-C12-O6A

There are no ring outliers.

No monomer is involved in short contacts.

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.

Ligand MYA A 1001

Bond lengths

Bond angles

Torsions

Rings

Ligand MYA B 2001

Bond lengths

Bond angles

Torsions

Rings
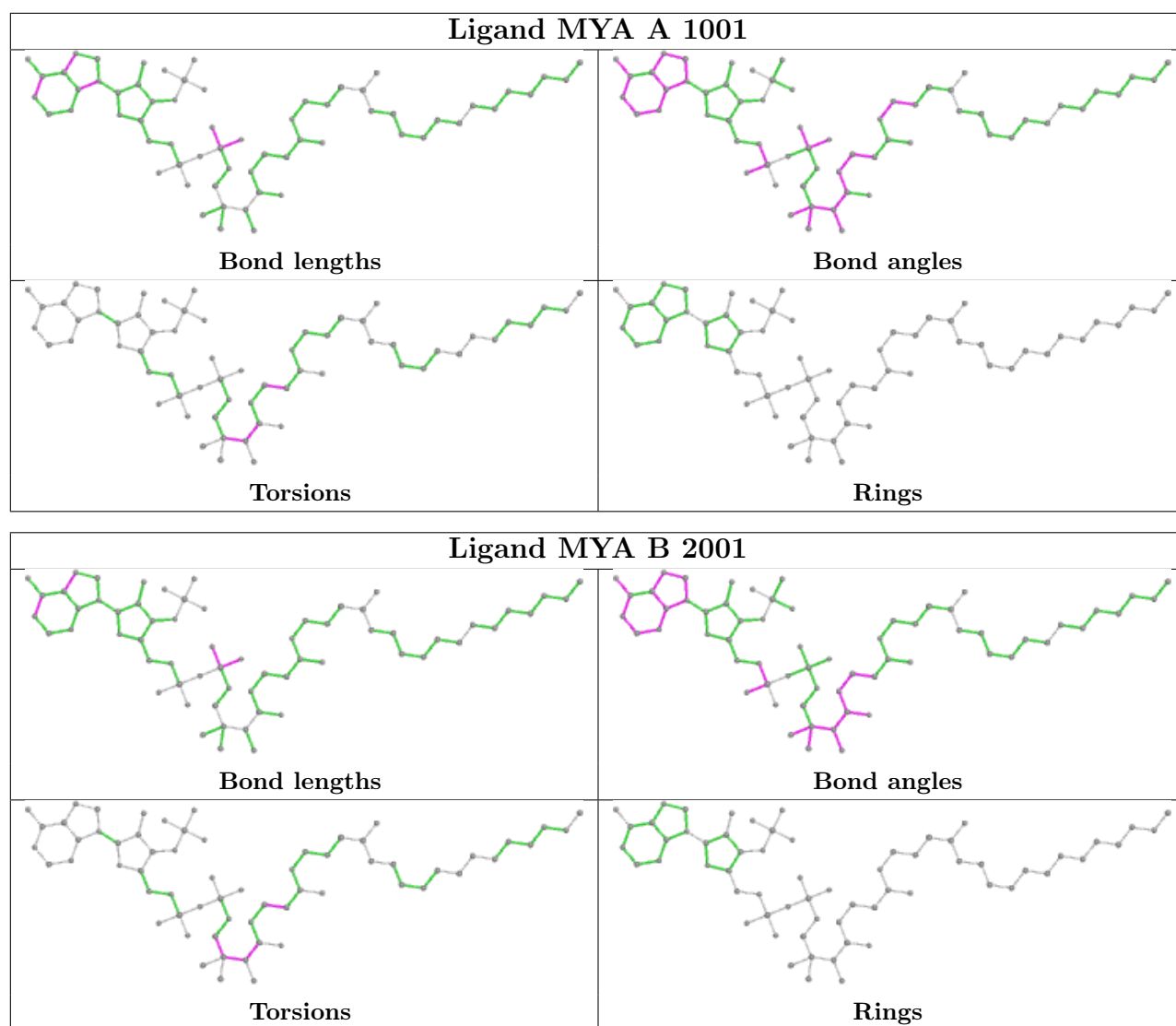
5.7 Other polymers ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

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	380/383 (99%)	0.26	25 (6%)	18	16	6, 13, 27, 35	0
1	B	382/383 (99%)	0.16	23 (6%)	21	19	6, 11, 25, 34	0
All	All	762/766 (99%)	0.21	48 (6%)	20	17	6, 12, 26, 35	0

All (48) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	409	ASN	9.2
1	B	412	THR	8.3
1	A	129	GLY	7.9
1	B	131	VAL	6.6
1	B	411	PRO	5.8
1	A	115	ARG	5.0
1	A	130	GLU	4.9
1	B	413	HIS	4.8
1	A	131	VAL	4.7
1	A	133	ASN	4.5
1	B	129	GLY	4.5
1	B	414	LYS	4.3
1	B	133	ASN	4.1
1	B	317	ASN	4.1
1	A	317	ASN	4.0
1	A	140	PRO	3.8
1	B	116	SER	3.8
1	B	115	ARG	3.7
1	A	134	THR	3.7
1	B	313	HIS	3.6
1	A	314	LEU	3.6
1	B	410	HIS	3.5
1	A	412	THR	3.2
1	A	313	HIS	3.2

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Mol	Chain	Res	Type	RSRZ
1	A	304	ARG	3.1
1	B	316	ARG	3.1
1	A	472	GLY	3.0
1	A	135	HIS	3.0
1	B	314	LEU	2.9
1	A	184	ASP	2.6
1	A	321	GLN	2.5
1	B	416	LEU	2.5
1	A	132	VAL	2.5
1	B	185	ASP	2.5
1	A	116	SER	2.4
1	A	471	ASP	2.4
1	B	315	SER	2.4
1	A	318	MET	2.4
1	A	319	THR	2.3
1	B	127	LYS	2.3
1	A	145[A]	ILE	2.2
1	B	144	ASN	2.2
1	A	306	LEU	2.2
1	B	471	ASP	2.2
1	A	322	ARG	2.2
1	A	127[A]	LYS	2.1
1	B	253	LYS	2.0
1	B	187	MET	2.0

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

There are no non-standard protein/DNA/RNA residues in this entry.
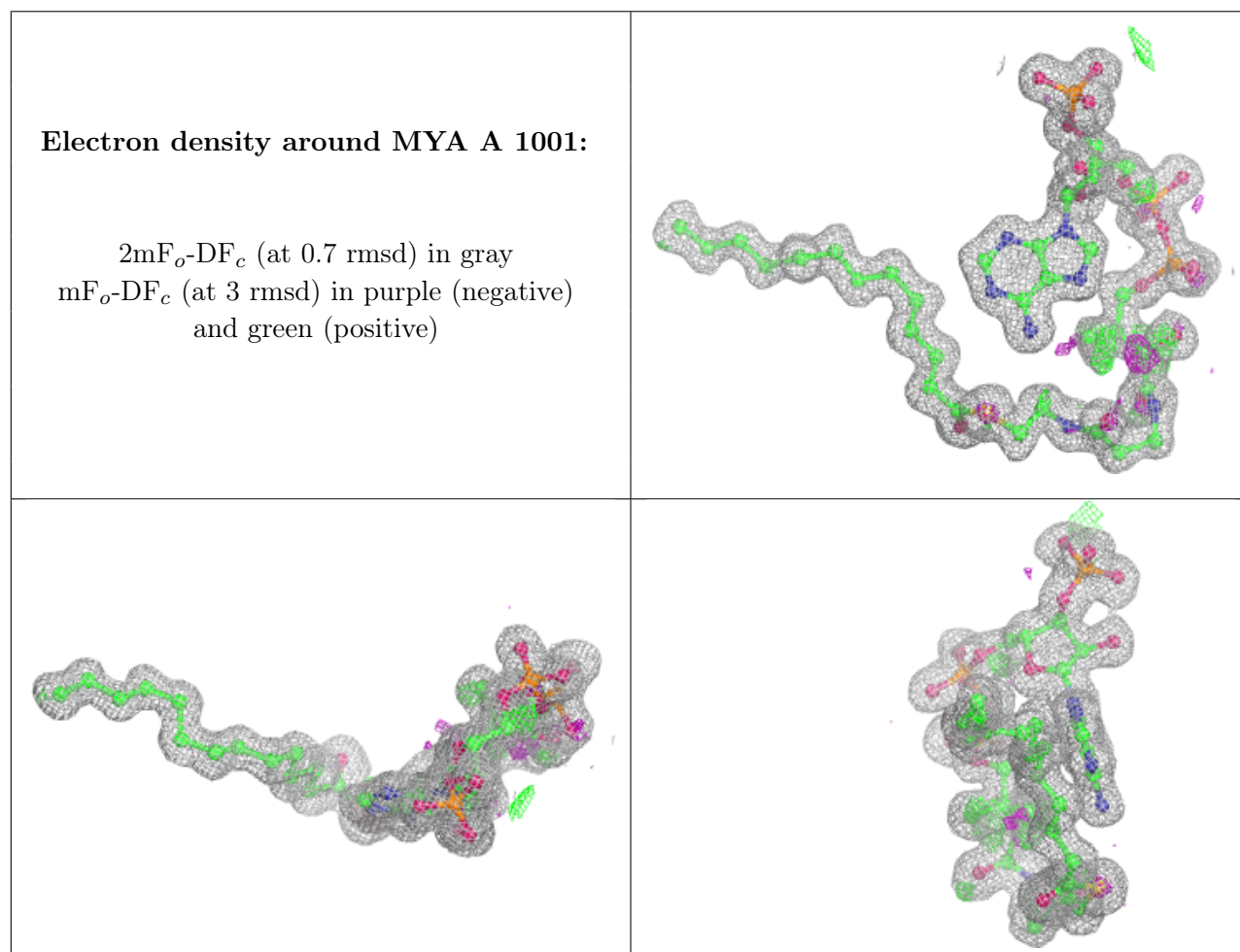
6.3   Carbohydrates ⓘ
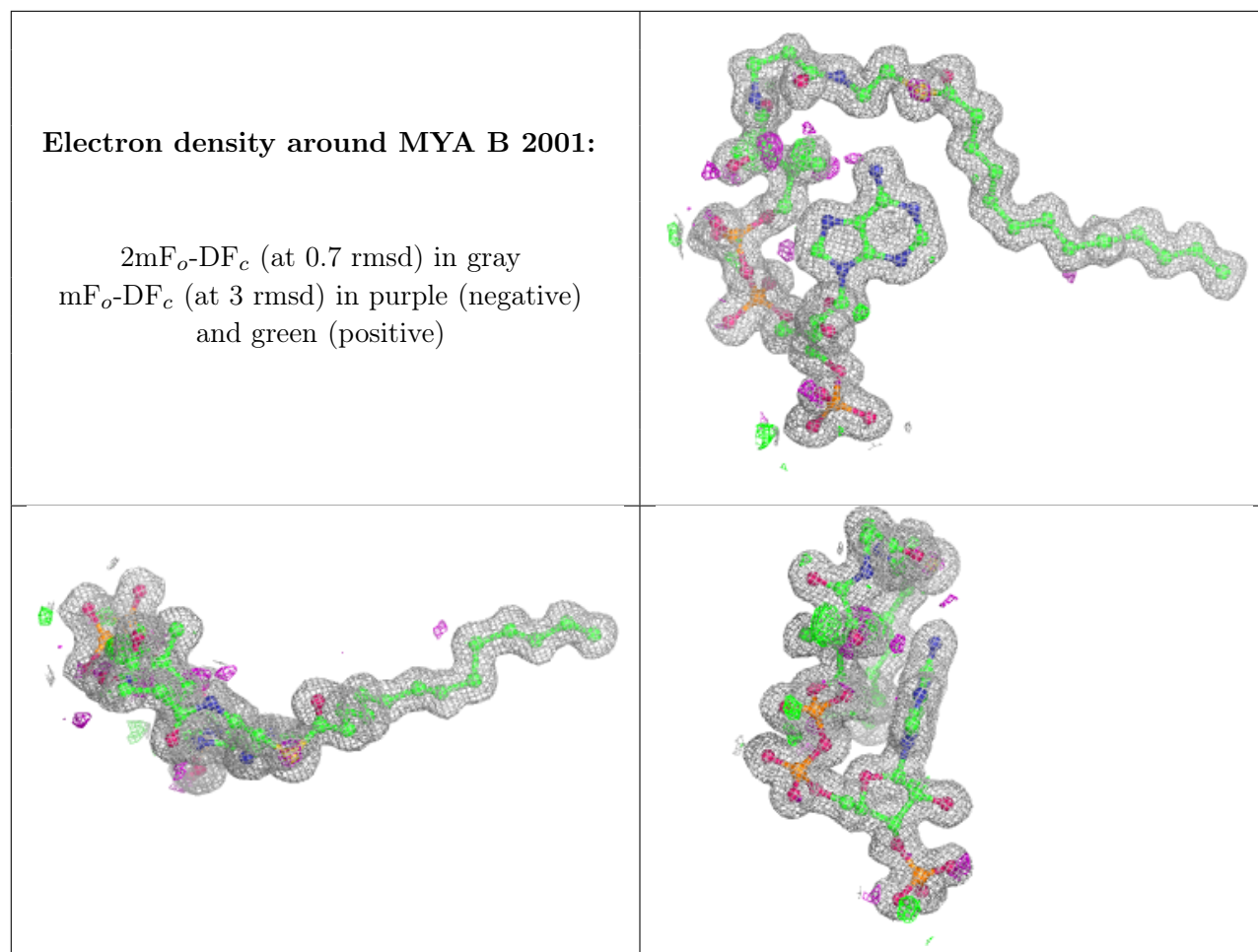
There are no monosaccharides in this entry.

6.4   Ligands ⓘ

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
2	MYA	A	1001	63/63	0.95	0.07	6,12,15,16	0
2	MYA	B	2001	63/63	0.96	0.07	5,10,12,13	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 MYA A 1001:

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

Electron density around MYA B 2001:

$2mF_o$-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 ⓘ

There are no such residues in this entry.