



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 12:11 PM UTC

PDB ID : 6B1L / pdb_00006b1l
Title : Crystal structure of glycylpeptide N-tetradecanoyltransferase from Plasmodium vivax in complex with inhibitor IMP-0001173
Authors : Seattle Structural Genomics Center for Infectious Disease (SSGCID)
Deposited on : 2017-09-18
Resolution : 2.30 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	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

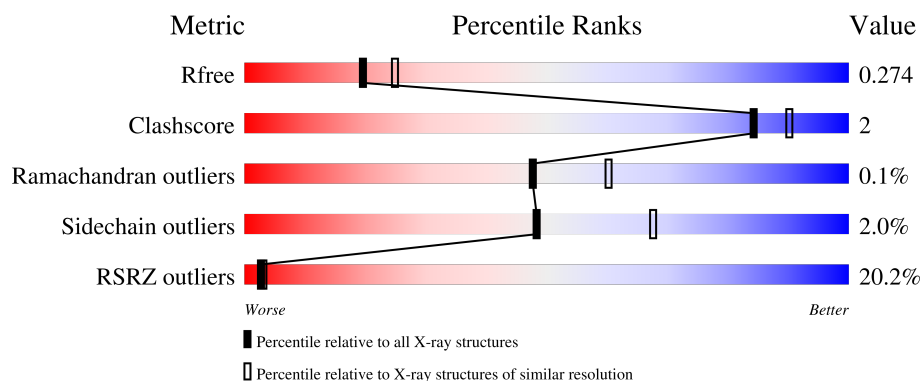
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

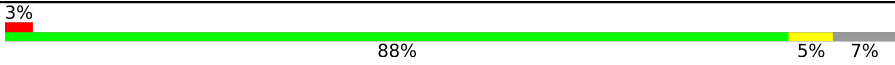
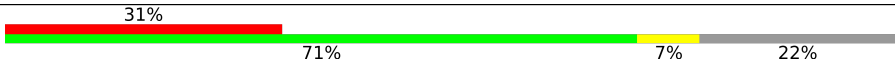
The reported resolution of this entry is 2.30 Å.

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}	180053	6319 (2.30-2.30)
Clashscore	190562	6919 (2.30-2.30)
Ramachandran outliers	187476	6854 (2.30-2.30)
Sidechain outliers	187428	6854 (2.30-2.30)
RSRZ outliers	180081	6325 (2.30-2.30)

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	405	
1	B	405	

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 5563 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.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	378	Total	C	N	O	S	0	1	0
			3031	1972	490	558	11			
1	B	315	Total	C	N	O	S	0	1	0
			2250	1447	375	421	7			

There are 42 discrepancies between the modelled and reference sequences:

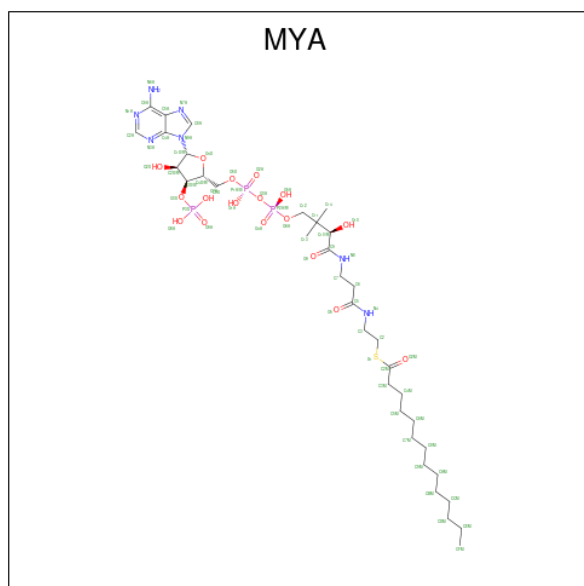
Chain	Residue	Modelled	Actual	Comment	Reference
A	6	MET	-	expression tag	UNP A5K1A2
A	7	GLY	-	expression tag	UNP A5K1A2
A	8	SER	-	expression tag	UNP A5K1A2
A	9	SER	-	expression tag	UNP A5K1A2
A	10	HIS	-	expression tag	UNP A5K1A2
A	11	HIS	-	expression tag	UNP A5K1A2
A	12	HIS	-	expression tag	UNP A5K1A2
A	13	HIS	-	expression tag	UNP A5K1A2
A	14	HIS	-	expression tag	UNP A5K1A2
A	15	HIS	-	expression tag	UNP A5K1A2
A	16	SER	-	expression tag	UNP A5K1A2
A	17	ALA	-	expression tag	UNP A5K1A2
A	18	ALA	-	expression tag	UNP A5K1A2
A	19	LEU	-	expression tag	UNP A5K1A2
A	20	GLU	-	expression tag	UNP A5K1A2
A	21	VAL	-	expression tag	UNP A5K1A2
A	22	LEU	-	expression tag	UNP A5K1A2
A	23	PHE	-	expression tag	UNP A5K1A2
A	24	GLN	-	expression tag	UNP A5K1A2
A	25	GLY	-	expression tag	UNP A5K1A2
A	26	PRO	-	expression tag	UNP A5K1A2
B	6	MET	-	expression tag	UNP A5K1A2
B	7	GLY	-	expression tag	UNP A5K1A2
B	8	SER	-	expression tag	UNP A5K1A2
B	9	SER	-	expression tag	UNP A5K1A2

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Chain	Residue	Modelled	Actual	Comment	Reference
B	10	HIS	-	expression tag	UNP A5K1A2
B	11	HIS	-	expression tag	UNP A5K1A2
B	12	HIS	-	expression tag	UNP A5K1A2
B	13	HIS	-	expression tag	UNP A5K1A2
B	14	HIS	-	expression tag	UNP A5K1A2
B	15	HIS	-	expression tag	UNP A5K1A2
B	16	SER	-	expression tag	UNP A5K1A2
B	17	ALA	-	expression tag	UNP A5K1A2
B	18	ALA	-	expression tag	UNP A5K1A2
B	19	LEU	-	expression tag	UNP A5K1A2
B	20	GLU	-	expression tag	UNP A5K1A2
B	21	VAL	-	expression tag	UNP A5K1A2
B	22	LEU	-	expression tag	UNP A5K1A2
B	23	PHE	-	expression tag	UNP A5K1A2
B	24	GLN	-	expression tag	UNP A5K1A2
B	25	GLY	-	expression tag	UNP A5K1A2
B	26	PRO	-	expression tag	UNP A5K1A2

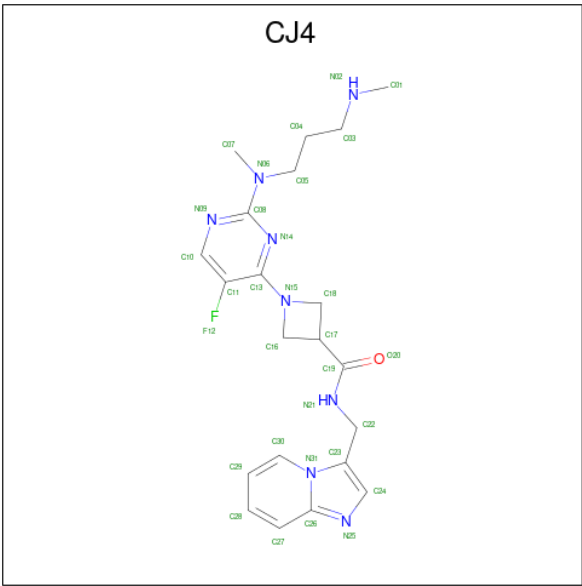
- Molecule 2 is TETRADECANOYL-COA (CCD ID: MYA) (formula: $C_{35}H_{62}N_7O_{17}P_3S$) (labeled as "Ligand of Interest" by depositor).



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

- Molecule 3 is 1-(5-fluoro-2-{methyl[3-(methylamino)propyl]amino}pyrimidin-4-yl)-N-[(imidazo[1,2-a]pyridin-3-yl)methyl]azetidine-3-carboxamide (CCD ID: CJ4) (formula:

C₂₁H₂₇FN₈O) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	A	1	Total	C	F	N	O	0	0
			31	21	1	8	1		

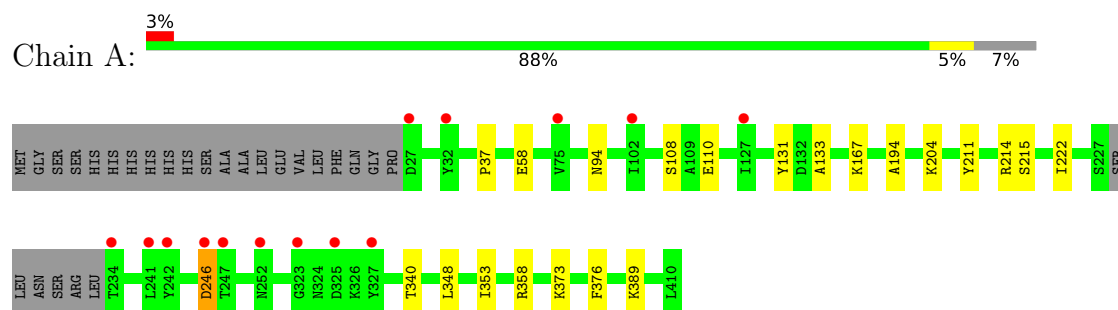
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	150	Total	O	0	2
			152	152		
4	B	36	Total	O	0	0
			36	36		

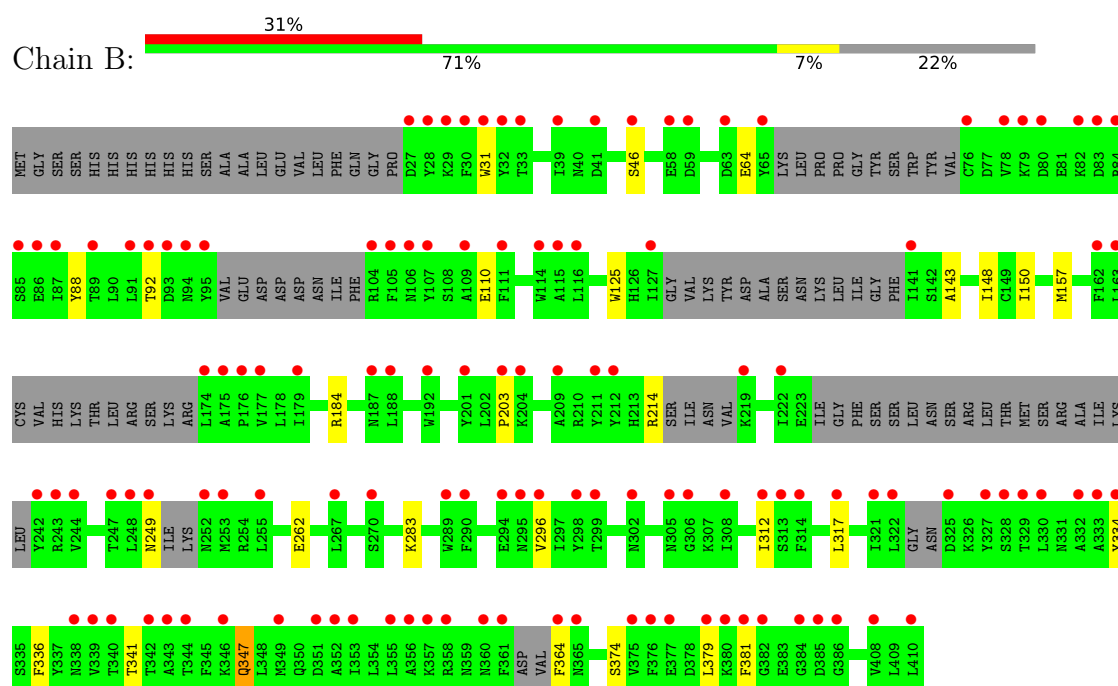
3 Residue-property plots

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



- Molecule 1: Glycylpeptide N-tetradecanoyltransferase



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants a, b, c, α , β , γ	80.03Å 81.49Å 119.44Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	48.17 – 2.30 48.17 – 2.30	Depositor EDS
% Data completeness (in resolution range)	99.0 (48.17-2.30) 99.0 (48.17-2.30)	Depositor EDS
R_{merge}	0.06	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.74 (at 2.29Å)	Xtriage
Refinement program	PHENIX 1.12_2829	Depositor
R, R_{free}	0.232 , 0.271 0.235 , 0.274	Depositor DCC
R_{free} test set	1884 reflections (5.32%)	wwPDB-VP
Wilson B-factor (Å ²)	40.5	Xtriage
Anisotropy	0.539	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.31 , 63.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	0.012 for k,h,-l	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	5563	wwPDB-VP
Average B, all atoms (Å ²)	57.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.24% 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: CJ4, 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	0.11	0/3112	0.31	0/4237
1	B	0.09	0/2303	0.29	1/3152 (0.0%)
All	All	0.10	0/5415	0.30	1/7389 (0.0%)

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	341	THR	N-CA-C	-5.06	108.86	114.62

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	3031	0	2893	13	0
1	B	2250	0	1827	13	0
2	A	63	0	58	1	0
3	A	31	0	0	0	0
4	A	152	0	0	1	0
4	B	36	0	0	0	0
All	All	5563	0	4778	23	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 (23) 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:214:ARG:O	1:B:364:PHE:N	2.28	0.67
1:A:214:ARG:NH1	1:A:215:SER:O	2.35	0.59
1:B:148:ILE:HG13	1:B:157:MET:HE2	1.85	0.58
1:A:214:ARG:HG2	1:A:353:ILE:HD13	1.83	0.58
1:A:37:PRO:HG2	1:A:204:LYS:HB3	1.88	0.54
1:B:88:TYR:O	1:B:92:THR:OG1	2.20	0.53
1:B:262:GLU:OE2	1:B:283:LYS:NZ	2.42	0.52
1:B:31:TRP:HB3	1:B:203:PRO:HG2	1.92	0.51
1:A:108:SER:HB2	1:B:46:SER:HB2	1.94	0.48
1:A:340:THR:HB	1:A:348:LEU:HD22	1.98	0.45
1:A:110:GLU:HB3	1:B:46:SER:HB3	1.97	0.45
1:A:94:ASN:HA	1:A:167:LYS:HD2	1.98	0.45
1:B:125:TRP:HB3	1:B:143:ALA:HB3	1.97	0.45
1:B:249:ASN:CG	1:B:347:GLN:HB2	2.42	0.45
1:A:389:LYS:NZ	4:A:612:HOH:O	2.50	0.44
1:A:194:ALA:HB2	2:A:501:MYA:HEM	1.99	0.43
1:A:131:TYR:CE2	1:A:133:ALA:HB3	2.54	0.43
1:A:110:GLU:CB	1:B:46:SER:HB3	2.50	0.42
1:B:317:LEU:HB3	1:B:334:TYR:CE1	2.55	0.42
1:B:379:LEU:O	1:B:381:PHE:N	2.53	0.42
1:B:64:GLU:HA	1:B:184:ARG:NH1	2.35	0.41
1:A:246:ASP:O	1:A:358[B]:ARG:NH2	2.53	0.41
1:A:373:LYS:HA	1:A:376:PHE:CD2	2.56	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	375/405 (93%)	367 (98%)	8 (2%)	0	100	100
1	B	296/405 (73%)	277 (94%)	18 (6%)	1 (0%)	36	46
All	All	671/810 (83%)	644 (96%)	26 (4%)	1 (0%)	48	60

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	296	VAL

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 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	317/367 (86%)	313 (99%)	4 (1%)	61	77
1	B	182/367 (50%)	176 (97%)	6 (3%)	33	50
All	All	499/734 (68%)	489 (98%)	10 (2%)	48	67

All (10) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	58	GLU
1	A	211	TYR
1	A	222	ILE
1	A	246	ASP
1	B	110	GLU
1	B	150	ILE
1	B	312	ILE
1	B	336	PHE
1	B	347	GLN
1	B	374	SER

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (8) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	44	ASN
1	A	187	ASN
1	A	274	GLN
1	A	359	ASN
1	B	120	ASN
1	B	187	ASN
1	B	359	ASN
1	B	404	HIS

5.3.3 RNA ⓘ

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 oligosaccharides 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
3	CJ4	A	502	-	32,34,34	0.68	0	41,47,47	1.05	4 (9%)
2	MYA	A	501	-	63,65,65	1.14	5 (7%)	85,91,91	1.61	12 (14%)

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
3	CJ4	A	502	-	-	1/18/30/30	0/4/4/4
2	MYA	A	501	-	-	3/64/80/80	0/3/3/3

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	501	MYA	C5A-C4A	4.69	1.47	1.39
2	A	501	MYA	C2M-S1	-3.94	1.67	1.76
2	A	501	MYA	C5A-C6A	2.76	1.48	1.41
2	A	501	MYA	C8A-N7A	2.44	1.36	1.31
2	A	501	MYA	C5A-N7A	-2.21	1.35	1.39

All (16) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	501	MYA	C3M-C2M-S1	5.98	120.53	113.40
2	A	501	MYA	C5A-C4A-N3A	-5.72	118.84	126.72
2	A	501	MYA	N3A-C4A-N9A	4.43	134.69	127.17
2	A	501	MYA	C2A-N3A-C4A	3.72	120.91	111.83
2	A	501	MYA	C4A-C5A-N7A	-3.60	106.47	110.58
2	A	501	MYA	N3A-C2A-N1A	-3.32	123.56	128.58
2	A	501	MYA	O2M-C2M-C3M	-3.22	120.27	123.98
2	A	501	MYA	O2M-C2M-S1	-2.75	119.19	122.68
2	A	501	MYA	C4A-N9A-C8A	2.68	108.56	105.74
2	A	501	MYA	C5A-N7A-C8A	2.58	107.51	103.45
3	A	502	CJ4	C18-N15-C13	2.57	133.87	125.64
3	A	502	CJ4	N09-C08-N14	-2.54	123.53	126.12
2	A	501	MYA	C6A-C5A-N7A	2.27	136.46	132.09
3	A	502	CJ4	C08-N14-C13	2.24	119.43	114.97
3	A	502	CJ4	F12-C11-C10	2.20	122.04	118.60
2	A	501	MYA	N9A-C8A-N7A	-2.07	111.00	113.94

There are no chirality outliers.

All (4) torsion outliers are listed below:

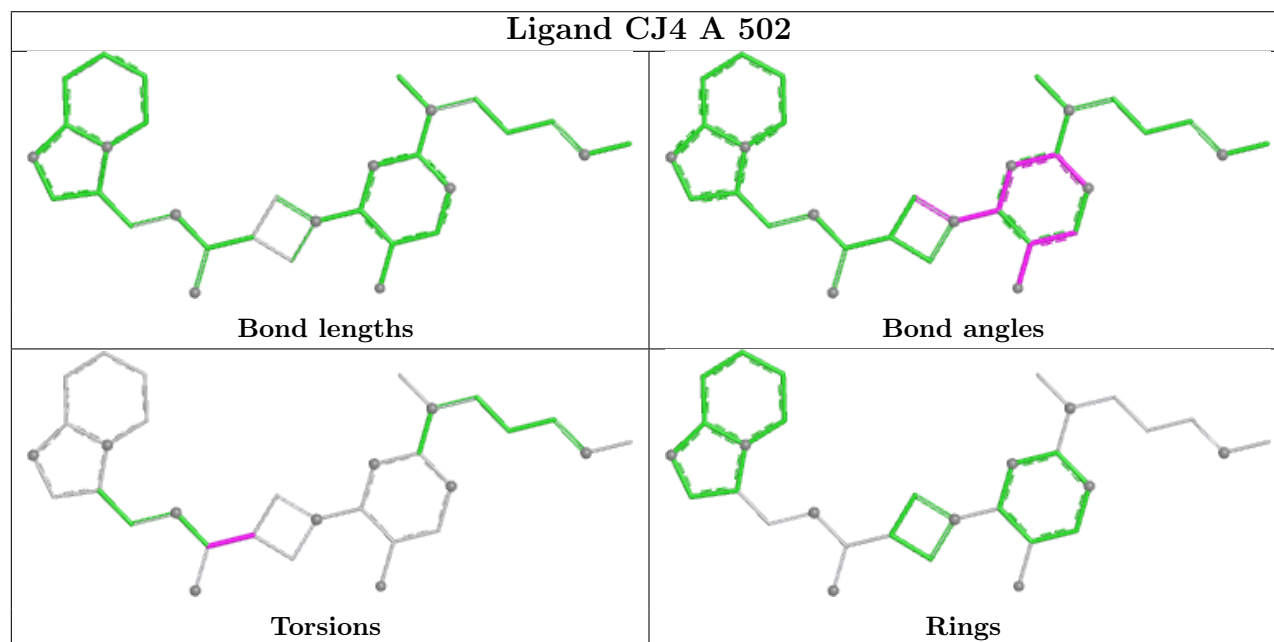
Mol	Chain	Res	Type	Atoms
2	A	501	MYA	C3-C2-S1-C2M
2	A	501	MYA	C14-C11-C12-O6A
2	A	501	MYA	P1A-O3A-P2A-O5A
3	A	502	CJ4	C18-C17-C19-O20

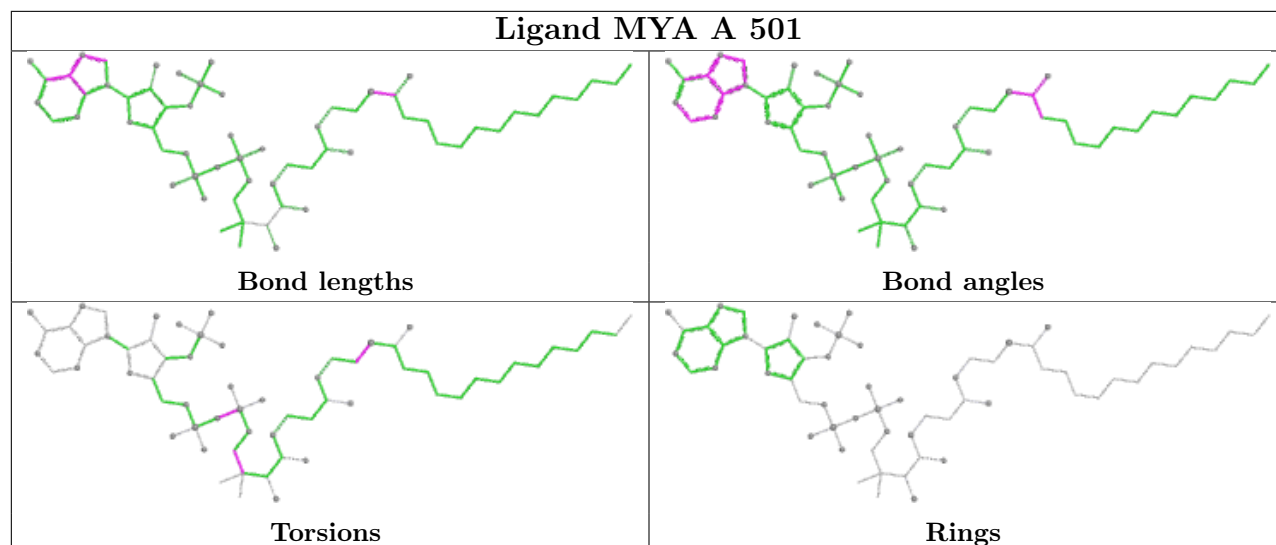
There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	501	MYA	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 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

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	378/405 (93%)	0.21	14 (3%)	45 48	25, 40, 77, 99	1 (0%)
1	B	315/405 (77%)	1.76	126 (40%)	1 0	39, 77, 114, 132	1 (0%)
All	All	693/810 (85%)	0.92	140 (20%)	3 3	25, 54, 105, 132	2 (0%)

All (140) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	296	VAL	5.8
1	B	353	ILE	5.2
1	B	27	ASP	4.8
1	B	91	LEU	4.8
1	B	76	CYS	4.7
1	A	32	TYR	4.4
1	B	179	ILE	4.2
1	B	298[A]	TYR	4.2
1	B	209	ALA	4.1
1	B	322	LEU	4.1
1	B	39	ILE	4.1
1	B	85	SER	4.1
1	B	93	ASP	4.0
1	B	28	TYR	4.0
1	B	174	LEU	3.9
1	B	364	PHE	3.8
1	B	325	ASP	3.8
1	B	204	LYS	3.8
1	B	65	TYR	3.8
1	B	253	MET	3.8
1	B	107	TYR	3.7
1	B	375	VAL	3.6
1	B	377	GLU	3.6
1	B	177	VAL	3.6

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Mol	Chain	Res	Type	RSRZ
1	B	95	TYR	3.5
1	B	211	TYR	3.5
1	B	376	PHE	3.5
1	B	382	GLY	3.5
1	B	242	TYR	3.5
1	B	295	ASN	3.5
1	B	343	ALA	3.4
1	B	111	PHE	3.3
1	B	78	VAL	3.3
1	B	305	ASN	3.3
1	A	242	TYR	3.3
1	B	381	PHE	3.3
1	B	141	ILE	3.2
1	A	234	THR	3.2
1	B	328	SER	3.2
1	B	59	ASP	3.2
1	B	63	ASP	3.2
1	B	302	ASN	3.2
1	B	379	LEU	3.2
1	B	109	ALA	3.2
1	B	333	ALA	3.2
1	B	317	LEU	3.2
1	B	87	ILE	3.2
1	B	346	LYS	3.1
1	B	386	GLY	3.1
1	B	356	ALA	3.1
1	B	162	PHE	3.1
1	B	360	ASN	3.1
1	B	344	THR	3.1
1	B	352	ALA	3.0
1	B	212	TYR	3.0
1	A	323	GLY	3.0
1	B	106	ASN	3.0
1	B	361	PHE	3.0
1	B	86	GLU	3.0
1	B	385	ASP	3.0
1	B	244	VAL	2.9
1	B	410	LEU	2.9
1	B	329	THR	2.9
1	A	102	ILE	2.9
1	B	308	ILE	2.8
1	B	222	ILE	2.8

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Mol	Chain	Res	Type	RSRZ
1	B	384	GLY	2.8
1	B	321	ILE	2.7
1	B	203	PRO	2.7
1	B	175	ALA	2.7
1	B	332	ALA	2.7
1	B	30	PHE	2.7
1	A	27	ASP	2.7
1	B	299	THR	2.7
1	B	84	ARG	2.7
1	B	340	THR	2.7
1	B	188	LEU	2.7
1	B	115	ALA	2.6
1	B	105	PHE	2.6
1	B	116	LEU	2.6
1	B	334	TYR	2.6
1	B	29	LYS	2.6
1	A	246	ASP	2.6
1	B	358	ARG	2.5
1	B	252	ASN	2.5
1	B	306	GLY	2.5
1	B	342	THR	2.5
1	B	330	LEU	2.5
1	B	380	LYS	2.5
1	B	294	GLU	2.5
1	B	327	TYR	2.5
1	B	58	GLU	2.4
1	B	163	LEU	2.4
1	B	33	THR	2.4
1	A	252	ASN	2.4
1	A	127	ILE	2.4
1	B	82	LYS	2.4
1	B	80	ASP	2.4
1	B	219	LYS	2.4
1	A	75	VAL	2.4
1	B	46	SER	2.3
1	B	267	LEU	2.3
1	B	192	TRP	2.3
1	A	241	LEU	2.3
1	B	355	LEU	2.3
1	B	314	PHE	2.3
1	B	357	LYS	2.3
1	B	41	ASP	2.3

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Mol	Chain	Res	Type	RSRZ
1	B	338	ASN	2.3
1	B	408	VAL	2.3
1	B	187	ASN	2.2
1	B	365	ASN	2.2
1	B	176	PRO	2.2
1	B	104	ARG	2.2
1	A	247	THR	2.2
1	B	249	ASN	2.2
1	B	79	LYS	2.2
1	B	92	THR	2.2
1	A	327	TYR	2.2
1	B	114	TRP	2.2
1	B	289	TRP	2.2
1	B	243	ARG	2.2
1	A	325	ASP	2.2
1	B	339	VAL	2.2
1	B	89	THR	2.2
1	B	351	ASP	2.1
1	B	32	TYR	2.1
1	B	349	MET	2.1
1	B	247	THR	2.1
1	B	313	SER	2.1
1	B	201	TYR	2.1
1	B	255	LEU	2.1
1	B	83	ASP	2.1
1	B	127	ILE	2.1
1	B	290	PHE	2.1
1	B	270	SER	2.0
1	B	94	ASN	2.0
1	B	312	ILE	2.0
1	B	31	TRP	2.0
1	B	248	LEU	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 oligosaccharides in this entry.

6.4 Ligands ⓘ

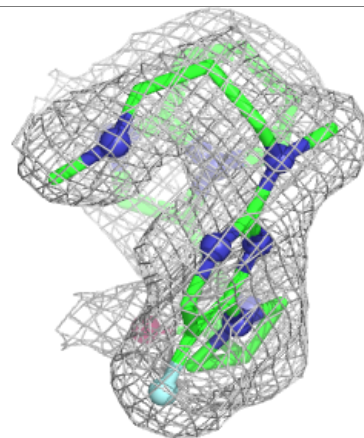
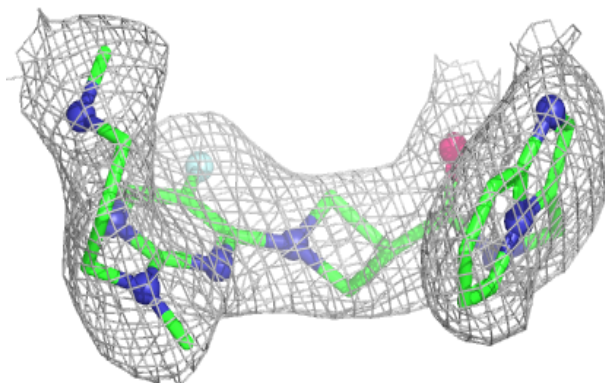
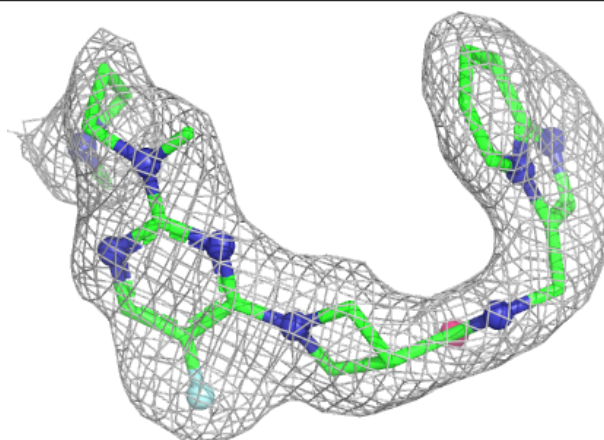
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q<0.9' lists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

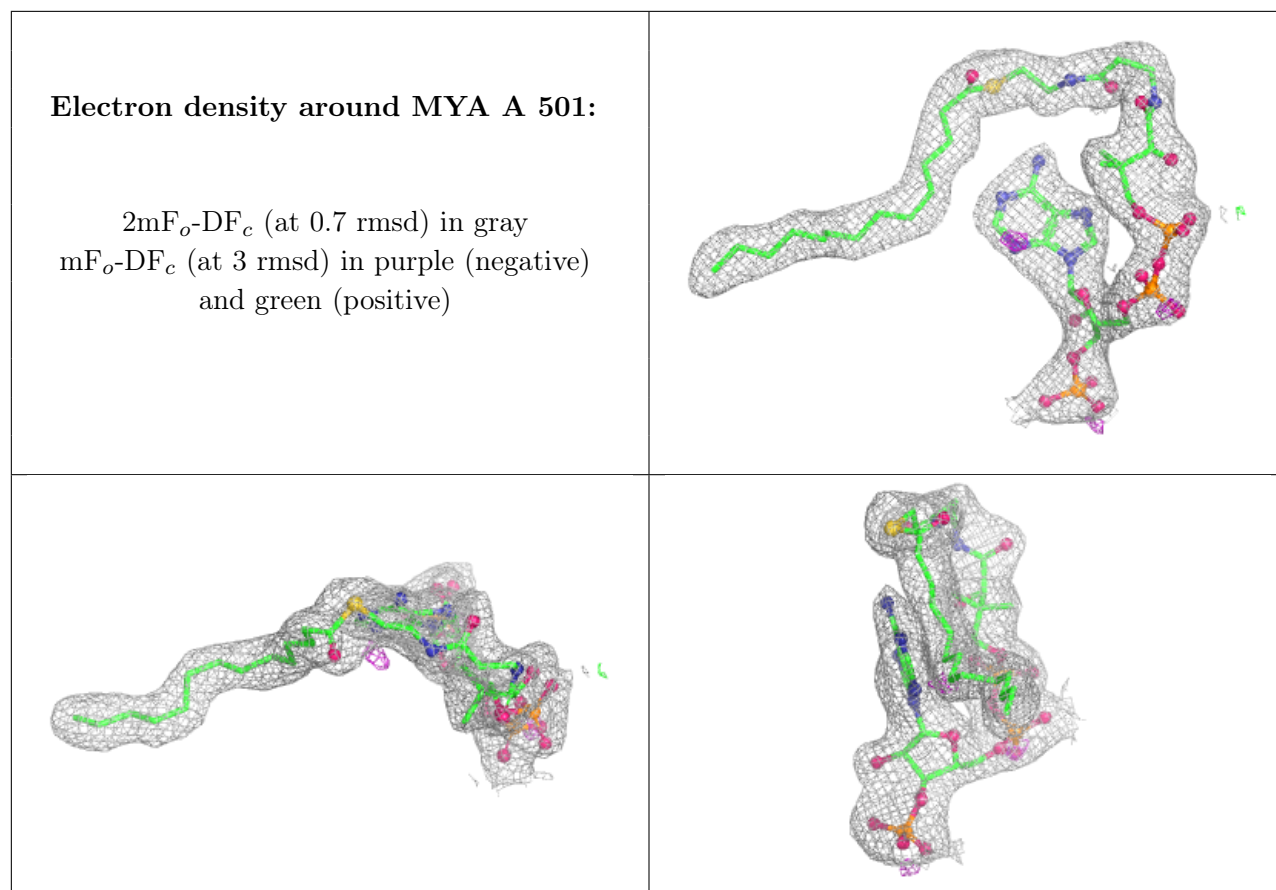
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
3	CJ4	A	502	31/31	0.90	0.10	42,47,52,53	0
2	MYA	A	501	63/63	0.93	0.09	23,41,47,53	0

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 CJ4 A 502:

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.