



Full wwPDB X-ray Structure Validation Report ⓘ

Nov 20, 2023 – 11:43 AM JST

PDB ID : 7CIJ
Title : Crystal structure of L-methionine decarboxylase from *Streptomyces* sp.590 in complexed with 3-methylthiopropylamine (external aldimine form).
Authors : Okawa, A.; Shiba, T.; Hayashi, M.; Onoue, Y.; Murota, M.; Sato, D.; Inagaki, J.; Tamura, T.; Harada, S.; Inagaki, K.
Deposited on : 2020-07-07
Resolution : 1.61 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 : 1.8.5 (274361), CSD as541be (2020)
Xtrriage (Phenix) : 1.13
EDS : 2.36
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) : 2.36

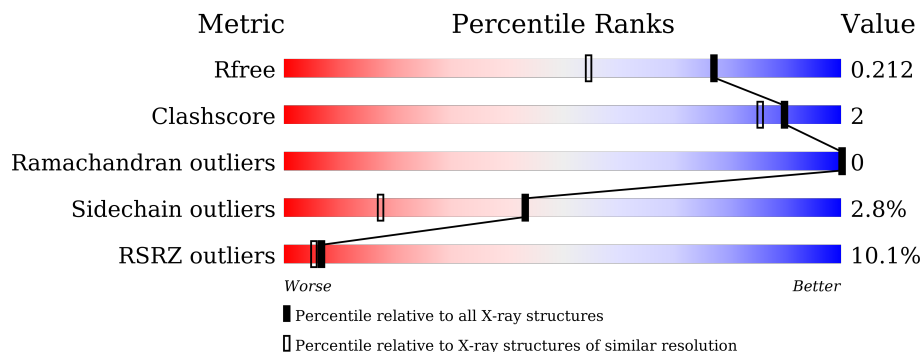
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.61 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	4693 (1.64-1.60)
Clashscore	141614	5002 (1.64-1.60)
Ramachandran outliers	138981	4888 (1.64-1.60)
Sidechain outliers	138945	4887 (1.64-1.60)
RSRZ outliers	127900	4609 (1.64-1.60)

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	557	
1	B	557	

2 Entry composition i

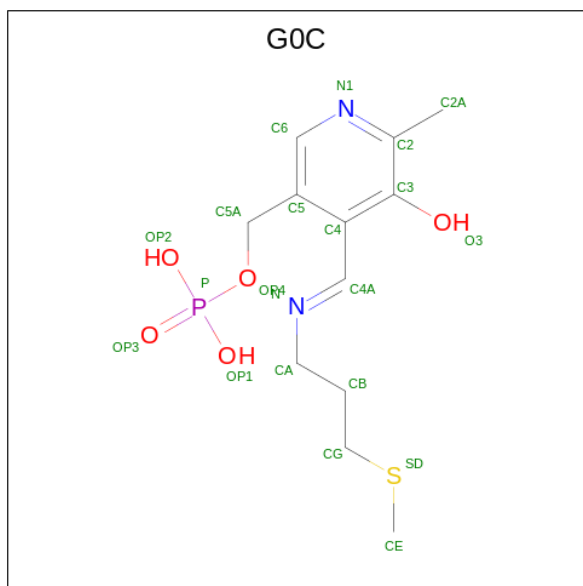
There are 3 unique types of molecules in this entry. The entry contains 8550 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 L-methionine decarboxylase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	518	Total 4118	C 2618	N 720	O 764	S 16	0	6	0
1	B	523	Total 4147	C 2637	N 725	O 768	S 17	0	6	0

- Molecule 2 is [6-methyl-4-[(E)-3-methylsulfanylpropyliminomethyl]-5-oxidanyl-pyridin-3-yl]methyl dihydrogen phosphate (three-letter code: G0C) (formula: C₁₂H₁₉N₂O₅PS) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	
			Total	C	N	O	P			S
2	A	1	Total 21	C 12	N 2	O 5	P 1	S 1	0	0
2	B	1	Total 21	C 12	N 2	O 5	P 1	S 1	0	0

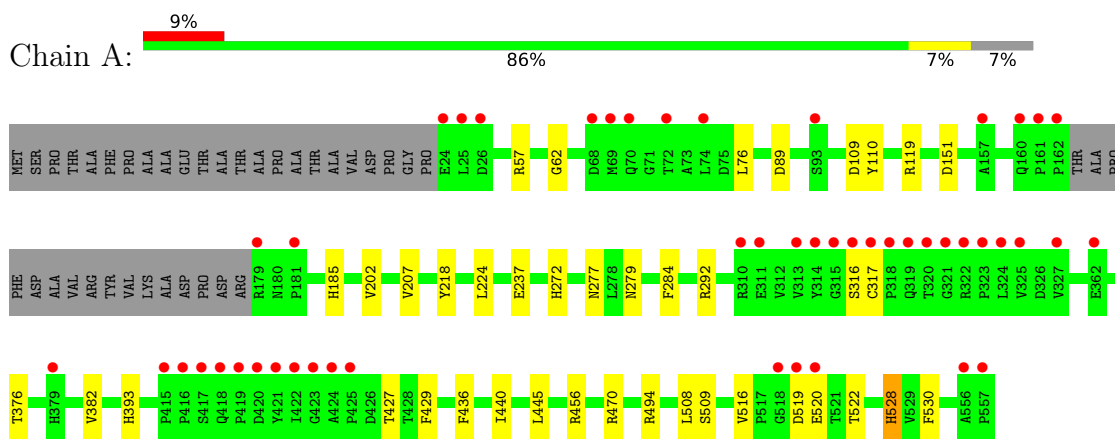
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	131	Total 131	O 131	0	0
3	B	112	Total 112	O 112	0	0

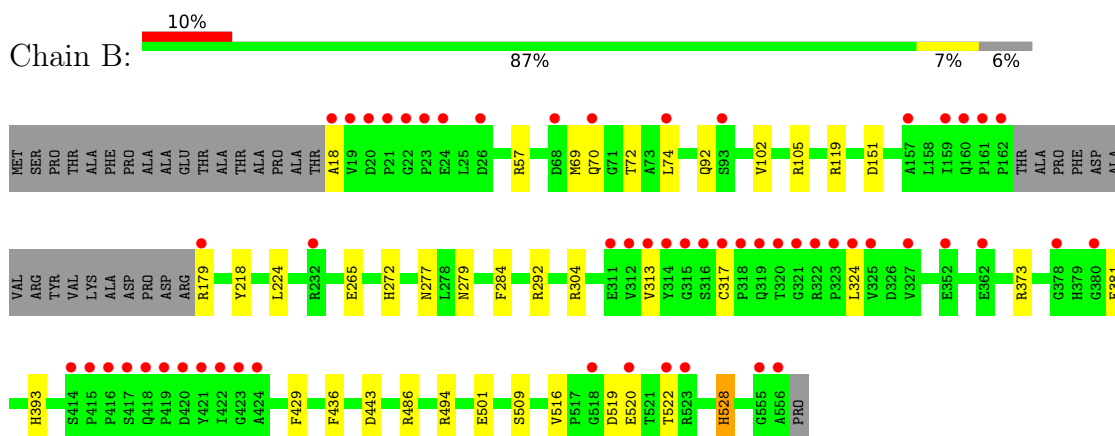
3 Residue-property plots [i](#)

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: L-methionine decarboxylase



- Molecule 1: L-methionine decarboxylase



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	125.18Å 147.50Å 54.06Å 90.00° 99.79° 90.00°	Depositor
Resolution (Å)	19.92 – 1.61 19.92 – 1.61	Depositor EDS
% Data completeness (in resolution range)	99.8 (19.92-1.61) 99.9 (19.92-1.61)	Depositor EDS
R_{merge}	0.09	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.74 (at 1.61Å)	Xtrriage
Refinement program	REFMAC 5.8.0103	Depositor
R, R_{free}	0.176 , 0.203 0.188 , 0.212	Depositor DCC
R_{free} test set	6098 reflections (4.91%)	wwPDB-VP
Wilson B-factor (Å ²)	20.4	Xtrriage
Anisotropy	0.038	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.42 , 43.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	8550	wwPDB-VP
Average B, all atoms (Å ²)	25.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.89% 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: G0C

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	0.58	0/4237	0.78	5/5772 (0.1%)
1	B	0.60	0/4267	0.79	4/5815 (0.1%)
All	All	0.59	0/8504	0.78	9/11587 (0.1%)

There are no bond length outliers.

All (9) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	57	ARG	NE-CZ-NH2	7.45	124.03	120.30
1	A	470	ARG	NE-CZ-NH2	6.01	123.30	120.30
1	A	109	ASP	CB-CG-OD1	5.72	123.45	118.30
1	A	151	ASP	CB-CG-OD1	5.68	123.41	118.30
1	B	486	ARG	NE-CZ-NH2	-5.29	117.65	120.30
1	B	151	ASP	CB-CG-OD1	5.24	123.02	118.30
1	B	292	ARG	NE-CZ-NH2	-5.09	117.75	120.30
1	A	456[A]	ARG	NE-CZ-NH1	5.06	122.83	120.30
1	A	456[B]	ARG	NE-CZ-NH1	5.06	122.83	120.30

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	4118	0	3971	16	0
1	B	4147	0	4002	15	0
2	A	21	0	0	0	0
2	B	21	0	0	0	0
3	A	131	0	0	0	0
3	B	112	0	0	0	0
All	All	8550	0	7973	30	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 (30) 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:516:VAL:HG22	1:B:522:THR:HG21	1.57	0.85
1:A:516:VAL:HG22	1:A:522:THR:HG21	1.57	0.84
1:A:89:ASP:OD1	1:A:427:THR:HG21	1.78	0.83
1:A:393:HIS:H	1:A:393:HIS:CD2	2.18	0.61
1:A:202:VAL:HG13	1:A:207:VAL:O	2.01	0.59
1:B:284:PHE:O	1:B:528:HIS:HD2	1.84	0.59
1:A:284:PHE:O	1:A:528:HIS:HD2	1.87	0.57
1:B:393:HIS:CD2	1:B:393:HIS:H	2.21	0.57
1:A:218:TYR:OH	1:A:272:HIS:HE1	1.90	0.55
1:B:509:SER:HB3	1:B:528:HIS:CE1	2.42	0.55
1:B:218:TYR:OH	1:B:272:HIS:HE1	1.91	0.54
1:A:509:SER:HB3	1:A:528:HIS:CE1	2.45	0.52
1:B:72:THR:HG22	1:B:443:ASP:OD2	2.10	0.51
1:A:185:HIS:O	1:A:272:HIS:HD2	1.95	0.49
1:A:277:ASN:HD21	1:A:279:ASN:ND2	2.12	0.48
1:B:313:VAL:HA	1:B:324:LEU:O	2.14	0.48
1:A:516:VAL:HG23	1:A:519:ASP:HB3	1.96	0.46
1:B:516:VAL:HG23	1:B:519:ASP:HB3	1.97	0.45
1:A:62:GLY:HA3	1:A:508:LEU:HA	1.99	0.43
1:B:102:VAL:HG22	1:B:105:ARG:NH2	2.33	0.43
1:B:277:ASN:HD21	1:B:279:ASN:ND2	2.16	0.43
1:A:277:ASN:HD21	1:A:279:ASN:HD21	1.66	0.42
1:B:18:ALA:HB3	1:B:501:GLU:OE2	2.19	0.42
1:A:76:LEU:HD12	1:A:440:ILE:HD13	2.02	0.42
1:A:376:THR:CG2	1:A:382:VAL:HG23	2.50	0.41
1:A:429:PHE:HE2	1:B:429:PHE:HE2	1.68	0.41
1:B:265:GLU:OE1	1:B:304:ARG:NH1	2.53	0.41
1:B:373:ARG:NH2	1:B:381:GLU:OE2	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:110:TYR:CE1	1:A:445:LEU:HD22	2.57	0.40
1:B:277:ASN:HD21	1:B:279:ASN:HD21	1.69	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	520/557 (93%)	504 (97%)	16 (3%)	0	100	100
1	B	525/557 (94%)	503 (96%)	22 (4%)	0	100	100
All	All	1045/1114 (94%)	1007 (96%)	38 (4%)	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	428/450 (95%)	416 (97%)	12 (3%)	43	17
1	B	431/450 (96%)	418 (97%)	13 (3%)	41	15
All	All	859/900 (95%)	834 (97%)	25 (3%)	43	16

All (25) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	57	ARG
1	A	119	ARG
1	A	224	LEU
1	A	237	GLU
1	A	292	ARG
1	A	316	SER
1	A	317	CYS
1	A	436	PHE
1	A	494	ARG
1	A	520	GLU
1	A	528	HIS
1	A	530	PHE
1	B	69[A]	MET
1	B	69[B]	MET
1	B	70	GLN
1	B	74	LEU
1	B	92	GLN
1	B	119	ARG
1	B	179	ARG
1	B	224	LEU
1	B	317	CYS
1	B	436	PHE
1	B	494	ARG
1	B	520	GLU
1	B	528	HIS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (11) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	182	ASN
1	A	272	HIS
1	A	279	ASN
1	A	309	GLN
1	A	393	HIS
1	A	528	HIS
1	B	182	ASN
1	B	272	HIS
1	B	279	ASN
1	B	393	HIS
1	B	528	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 monosaccharides in this entry.

5.6 Ligand geometry [i](#)

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	G0C	B	601	-	21,21,21	1.24	2 (9%)	26,28,28	1.76	7 (26%)
2	G0C	A	601	-	21,21,21	1.34	3 (14%)	26,28,28	1.72	7 (26%)

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	G0C	B	601	-	-	1/13/13/13	0/1/1/1
2	G0C	A	601	-	-	1/13/13/13	0/1/1/1

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	601	G0C	C4-C4A	-3.22	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	601	G0C	C4-C4A	-2.87	1.41	1.46
2	A	601	G0C	P-OP1	-2.67	1.44	1.54
2	B	601	G0C	P-OP1	-2.59	1.44	1.54
2	A	601	G0C	C3-C2	-2.54	1.38	1.40

All (14) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	601	G0C	CB-CA-N	4.59	122.18	110.93
2	A	601	G0C	CB-CA-N	4.39	121.68	110.93
2	A	601	G0C	OP2-P-OP1	2.79	118.31	107.64
2	B	601	G0C	OP1-P-OP4	-2.66	99.65	106.73
2	B	601	G0C	C2A-C2-C3	2.61	124.11	120.89
2	A	601	G0C	OP1-P-OP4	-2.60	99.82	106.73
2	B	601	G0C	OP2-P-OP1	2.59	117.52	107.64
2	A	601	G0C	C5-C6-N1	-2.58	119.52	123.82
2	B	601	G0C	C3-C4-C5	-2.45	116.38	118.26
2	B	601	G0C	C5A-C5-C6	-2.15	115.84	119.37
2	A	601	G0C	CA-CB-CG	2.13	118.04	113.25
2	A	601	G0C	CA-N-C4A	2.12	125.41	118.90
2	B	601	G0C	CB-CG-SD	-2.11	103.31	113.06
2	A	601	G0C	C6-N1-C2	2.02	122.91	119.17

There are no chirality outliers.

All (2) torsion outliers are listed below:

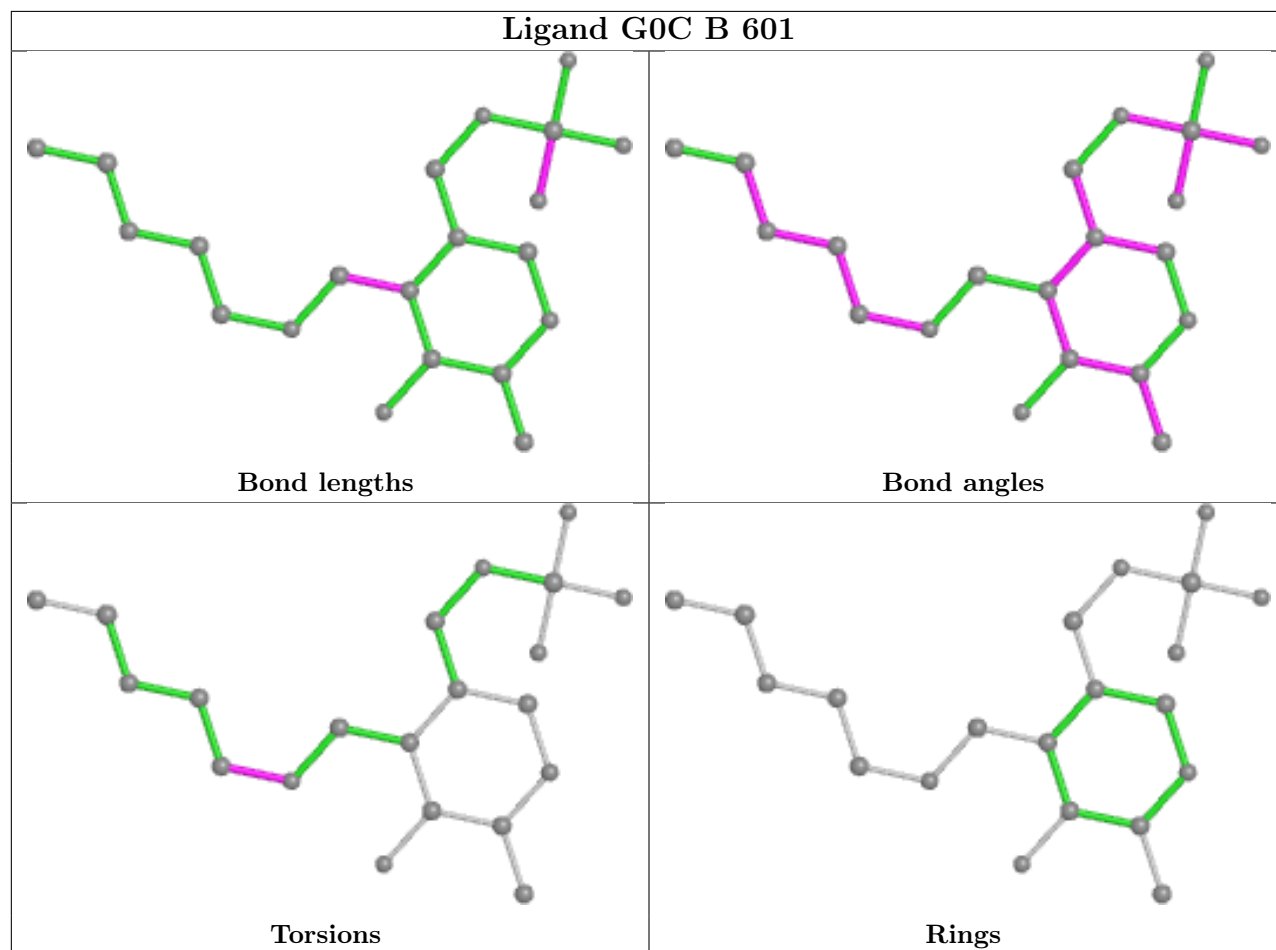
Mol	Chain	Res	Type	Atoms
2	A	601	G0C	CB-CA-N-C4A
2	B	601	G0C	CB-CA-N-C4A

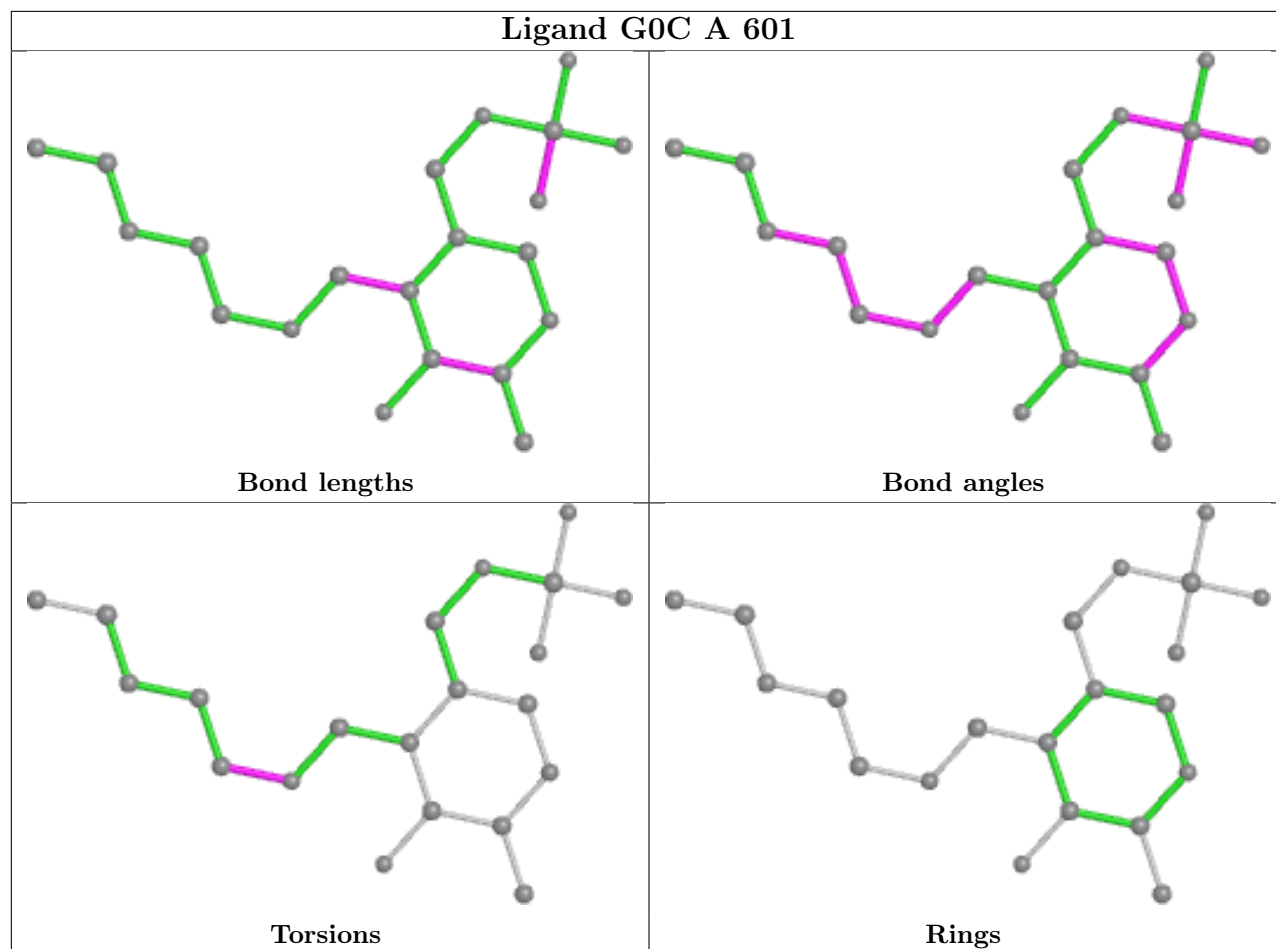
There are no ring outliers.

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 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	518/557 (92%)	0.55	49 (9%) 8 6	12, 19, 52, 121	0
1	B	523/557 (93%)	0.68	56 (10%) 6 5	13, 21, 50, 149	0
All	All	1041/1114 (93%)	0.62	105 (10%) 7 5	12, 20, 51, 149	0

All (105) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	162	PRO	22.6
1	B	317	CYS	18.2
1	B	320	THR	15.7
1	A	318	PRO	15.1
1	B	318	PRO	14.8
1	B	315	GLY	14.5
1	B	321	GLY	13.3
1	B	161	PRO	11.4
1	B	316	SER	11.3
1	A	319	GLN	11.3
1	B	319	GLN	11.2
1	A	317	CYS	10.9
1	A	320	THR	10.2
1	A	325	VAL	9.8
1	B	325	VAL	9.8
1	A	418	GLN	9.4
1	A	315	GLY	9.3
1	B	556	ALA	9.2
1	B	418	GLN	8.6
1	A	421	TYR	8.5
1	B	313	VAL	8.5
1	B	160	GLN	8.4
1	B	324	LEU	8.3
1	A	321	GLY	8.3

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Mol	Chain	Res	Type	RSRZ
1	B	314	TYR	7.8
1	A	316	SER	7.7
1	B	323	PRO	7.6
1	A	420	ASP	7.1
1	A	419	PRO	6.9
1	A	179	ARG	6.9
1	A	314	TYR	6.7
1	A	161	PRO	6.7
1	A	160	GLN	6.5
1	A	424	ALA	6.3
1	B	18	ALA	6.3
1	B	322	ARG	6.2
1	A	162	PRO	6.1
1	A	323	PRO	6.1
1	A	324	LEU	6.1
1	B	421	TYR	6.1
1	B	518	GLY	5.8
1	A	74	LEU	5.5
1	A	313	VAL	5.1
1	B	179	ARG	5.1
1	A	422	ILE	4.9
1	A	423	GLY	4.8
1	B	424	ALA	4.8
1	A	70	GLN	4.7
1	B	423	GLY	4.7
1	A	417	SER	4.7
1	A	322	ARG	4.6
1	A	518	GLY	4.6
1	A	25	LEU	4.4
1	A	93	SER	4.4
1	B	420	ASP	4.4
1	A	24	GLU	4.3
1	B	419	PRO	3.9
1	B	422	ILE	3.8
1	B	555	GLY	3.8
1	B	417	SER	3.8
1	B	362	GLU	3.5
1	A	68	ASP	3.4
1	B	520	GLU	3.4
1	B	23	PRO	3.3
1	A	26	ASP	3.3
1	B	70	GLN	3.2

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Mol	Chain	Res	Type	RSRZ
1	A	416	PRO	3.1
1	A	557	PRO	3.1
1	A	362	GLU	3.1
1	B	311	GLU	3.1
1	B	415	PRO	3.0
1	A	556	ALA	3.0
1	B	26	ASP	2.9
1	A	72	THR	2.9
1	B	22	GLY	2.8
1	B	159	ILE	2.8
1	B	414	SER	2.7
1	A	157	ALA	2.6
1	B	352	GLU	2.6
1	B	24	GLU	2.6
1	A	519	ASP	2.5
1	B	378	GLY	2.5
1	B	522	THR	2.5
1	B	523	ARG	2.5
1	A	520	GLU	2.4
1	B	68	ASP	2.4
1	B	21	PRO	2.4
1	A	379	HIS	2.4
1	A	425	PRO	2.3
1	B	74	LEU	2.3
1	B	20	ASP	2.3
1	B	232	ARG	2.3
1	B	416	PRO	2.3
1	A	69	MET	2.3
1	A	327	VAL	2.2
1	B	157	ALA	2.2
1	A	311	GLU	2.2
1	B	327	VAL	2.2
1	A	310[A]	ARG	2.2
1	B	93	SER	2.2
1	B	19	VAL	2.1
1	B	380	GLY	2.0
1	B	312	VAL	2.0
1	A	181	PRO	2.0
1	A	415	PRO	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](#)

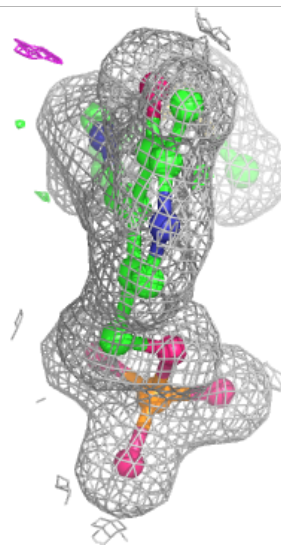
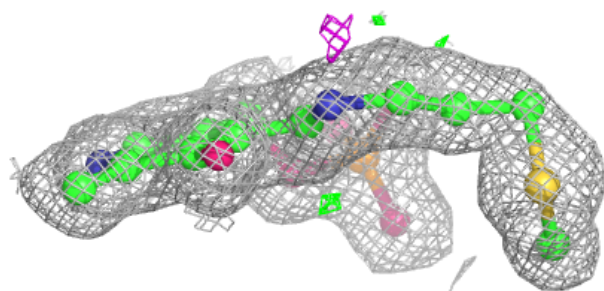
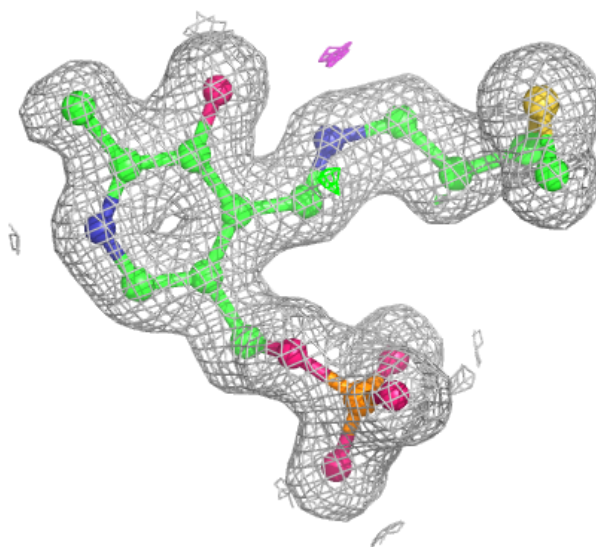
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists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

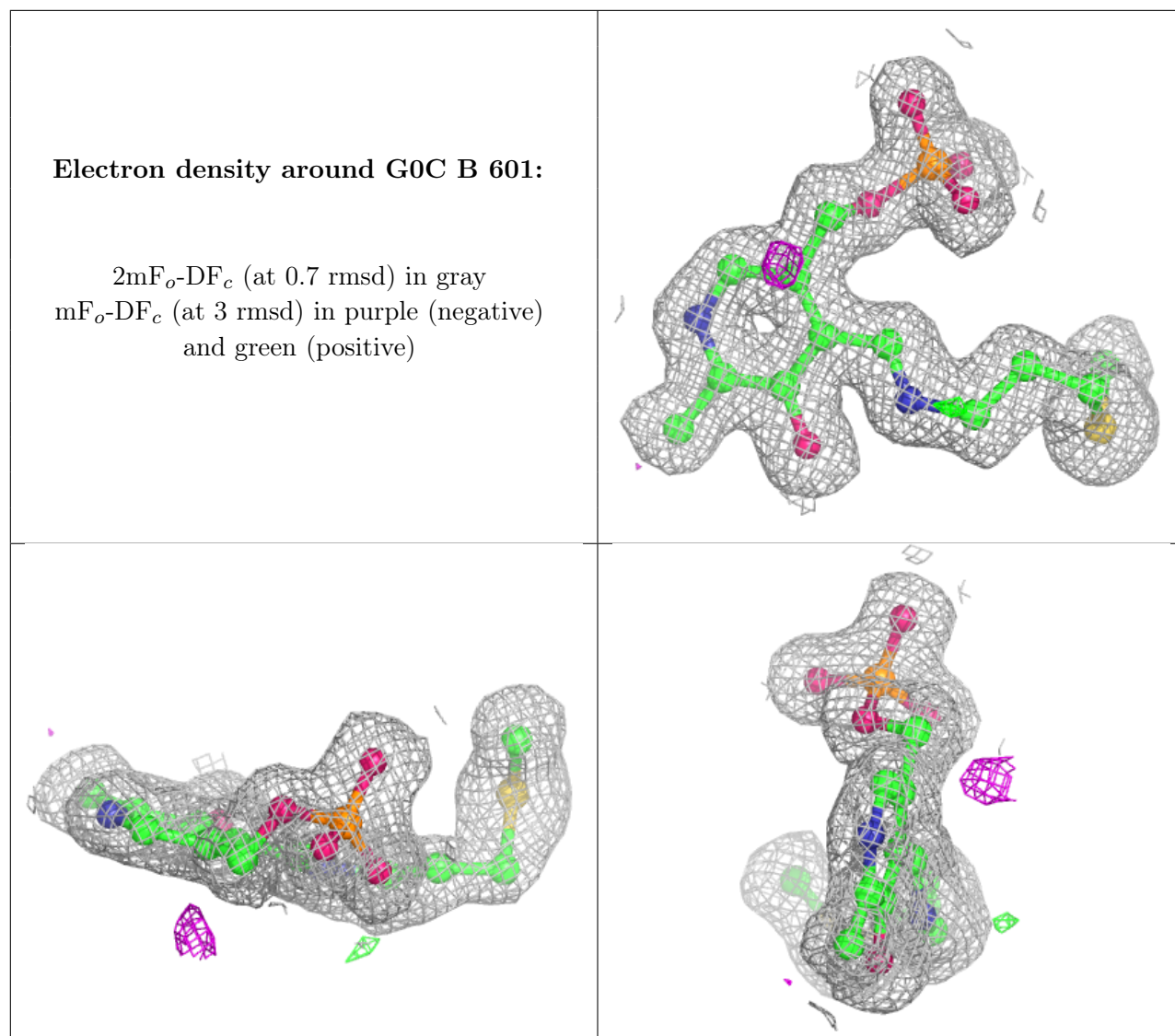
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
2	G0C	A	601	21/21	0.97	0.08	12,15,22,22	0
2	G0C	B	601	21/21	0.98	0.09	13,15,21,22	0

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 G0C A 601:

$2mF_o-DF_c$ (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.