

Full wwPDB X-ray Structure Validation Report (i)

Jan 7, 2024 – 02:04 pm GMT

PDB ID : 5NX6

Title : Crystal structure of 1,8-cineole synthase from Streptomyces clavuligerus in

complex with 2-fluoroneryl diphosphate

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Deposited on : 2017-05-09

Resolution : 1.63 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 : 4.02b-467

Mogul : 1.8.4, CSD as541be (2020)

Xtriage (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)

 $Refmac \quad : \quad 5.8.0158$

CCP4 : 7.0.044 (Gargrove)

Ideal geometry (proteins) : Engh & Huber (2001) Ideal geometry (DNA, RNA) : Parkinson et al. (1996)

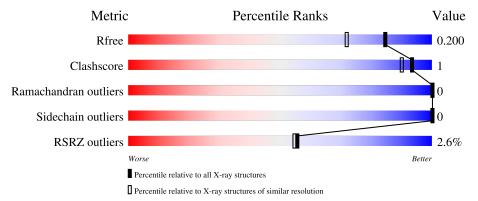
Validation Pipeline (wwPDB-VP) : 2.36

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure: $X\text{-}RAY\ DIFFRACTION$

The reported resolution of this entry is 1.63 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	$\begin{array}{c} \text{Whole archive} \\ (\#\text{Entries}) \end{array}$	Similar resolution $(\# \text{Entries, resolution range}(\text{\AA}))$
R_{free}	130704	3122 (1.66-1.62)
Clashscore	141614	3268 (1.66-1.62)
Ramachandran outliers	138981	3215 (1.66-1.62)
Sidechain outliers	138945	3215 (1.66-1.62)
RSRZ outliers	127900	3079 (1.66-1.62)

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	330	88%	5%	8%
1	В	330	88%	•	8%



2 Entry composition (i)

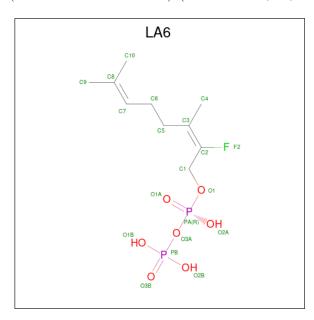
There are 7 unique types of molecules in this entry. The entry contains 5949 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 Pentalenene synthase.

\mathbf{Mol}	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
1	A	305	Total 2511	C 1590	N 454	O 457	S 10	0	7	0
			2511	1090	404	457	10			
1	B	305	Total	\mathbf{C}	N	O	\mathbf{S}	0	5	0
1	ט	300	2491	1579	449	453	10	U	9	U

• Molecule 2 is (2E)-2-fluoro-3,7-dimethylocta-2,6-dien-1-yl trihydrogen diphosphate (three-letter code: LA6) (formula: C₁₀H₁₉FO₇P₂).



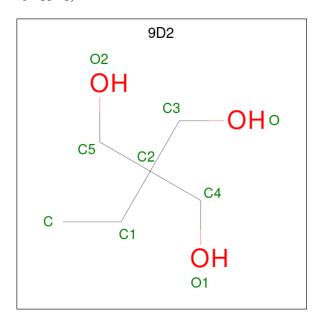
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf		
2	A	1	Total	С	F	О	Р	0	1	
		1	40	20	2	14	4	U	1	
2	В	В	1	Total	С	F	О	Р	0	1
2			1	40	20	2	14	4	U	1

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



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

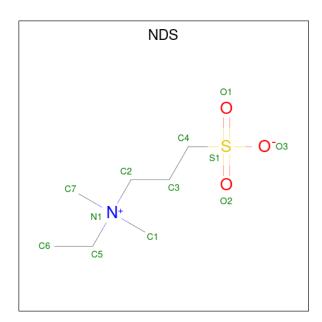
 \bullet Molecule 4 is 2-ethyl-2-(hydroxymethyl) propane-1,3-diol (three-letter code: 9D2) (formula: $C_6H_{14}O_3).$



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	1	Total C O 9 6 3	0	0
4	В	1	Total C O 9 6 3	0	0

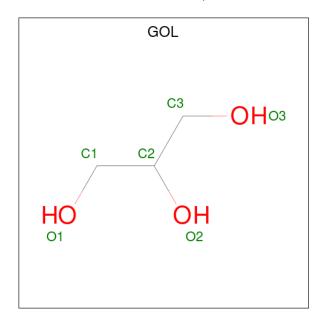
• Molecule 5 is ETHYL DIMETHYL AMMONIO PROPANE SULFONATE (three-letter code: NDS) (formula: $C_7H_{17}NO_3S$).





Mol	Chain	Residues	Atoms				ZeroOcc	AltConf		
E	Λ	1	Total	С	N	О	S	0	0	
9	A	1	12	7	1	3	1	0		
E .	D	1	Total	С	N	О	S	0	0	
б	Б	1	12	7	1	3	1	U	U	

 \bullet Molecule 6 is GLYCEROL (three-letter code: GOL) (formula: $\mathrm{C_3H_8O_3}).$



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	A	1	Total C O 6 3 3	0	0
6	В	1	Total C O 6 3 3	0	0



• Molecule 7 is water.

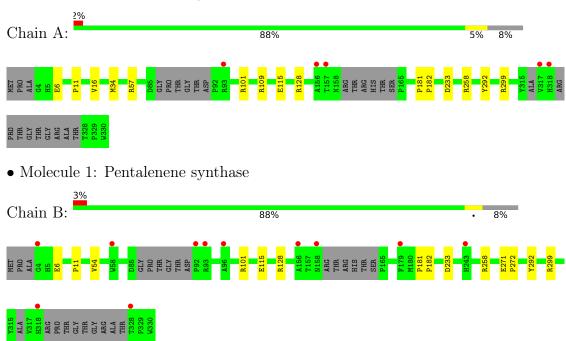
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	A	407	Total O 407 407	0	0
7	В	402	Total O 402 402	0	0



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: Pentalenene synthase





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1	Depositor
Cell constants	60.81Å 60.83Å 64.10Å	Dan asitan
a, b, c, α , β , γ	90.04° 92.89° 101.98°	Depositor
Resolution (Å)	32.26 - 1.63	Depositor
Resolution (A)	32.26 - 1.63	EDS
% Data completeness	96.0 (32.26-1.63)	Depositor
(in resolution range)	96.0 (32.26-1.63)	EDS
R_{merge}	0.09	Depositor
R_{sum}	(Not available)	Depositor
$< I/\sigma(I) > 1$	1.64 (at 1.63Å)	Xtriage
Refinement program	PHENIX (dev_2621: ???)	Depositor
рρ.	0.166 , 0.194	Depositor
R, R_{free}	0.175 , 0.200	DCC
R_{free} test set	5155 reflections (4.80%)	wwPDB-VP
Wilson B-factor (Å ²)	16.2	Xtriage
Anisotropy	0.023	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.39, 63.7	EDS
L-test for twinning ²	$< L > = 0.48, < L^2> = 0.32$	Xtriage
	0.015 for -h,-k,l	
Estimated twinning fraction	0.117 for k,h,-l	Xtriage
	0.017 for -k,-h,-l	
F_o, F_c correlation	0.96	EDS
Total number of atoms	5949	wwPDB-VP
Average B, all atoms (Å ²)	24.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 6.22% of the height of the origin peak. No significant pseudotranslation is detected.

²Theoretical 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.



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: 9D2, NDS, LA6, MG, GOL

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		nd lengths	Bond angles		
IVIOI		RMSZ	# Z > 5	RMSZ	# Z > 5	
1	A	0.65	0/2599	0.75	6/3545~(0.2%)	
1	В	0.63	$1/2579 \ (0.0\%)$	0.72	5/3518 (0.1%)	
All	All	0.64	1/5178 (0.0%)	0.74	$11/7063 \ (0.2\%)$	

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\operatorname{Observed}(\text{\AA})$	$Ideal(\AA)$
1	В	54	VAL	CB-CG1	-5.09	1.42	1.52

All (11) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^o)$	$\operatorname{Ideal}(^{o})$
1	В	299	ARG	NE-CZ-NH1	7.40	124.00	120.30
1	A	128	ARG	NE-CZ-NH1	7.39	123.99	120.30
1	В	299	ARG	NE-CZ-NH2	-6.74	116.93	120.30
1	A	258	ARG	NE-CZ-NH2	-6.38	117.11	120.30
1	В	258	ARG	NE-CZ-NH2	-6.23	117.18	120.30
1	A	299	ARG	NE-CZ-NH1	6.13	123.36	120.30
1	A	34	MET	CG-SD-CE	-5.96	90.66	100.20
1	В	128	ARG	NE-CZ-NH2	-5.66	117.47	120.30
1	В	128	ARG	NE-CZ-NH1	5.39	123.00	120.30
1	A	109	ARG	NE-CZ-NH2	-5.13	117.74	120.30
1	A	299	ARG	NE-CZ-NH2	-5.12	117.74	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	2511	0	2381	9	0
1	В	2491	0	2361	9	0
2	A	40	0	32	0	0
2	В	40	0	32	0	0
3	A	2	0	0	0	0
3	В	2	0	0	0	0
4	A	9	0	0	1	0
4	В	9	0	0	1	0
5	A	12	0	17	0	0
5	В	12	0	17	0	0
6	A	6	0	8	0	0
6	В	6	0	8	0	0
7	A	407	0	0	1	1
7	В	402	0	0	1	1
All	All	5949	0	4856	14	1

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 1.

All (14) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	$egin{aligned} & ext{Interatomic} \ & ext{distance} \ & ext{(Å)} \end{aligned}$	Clash overlap (Å)
1:B:233:ASP:OD2	7:B:501:HOH:O	2.04	0.76
1:A:233:ASP:OD2	7:A:501:HOH:O	2.11	0.67
1:A:11:PRO:HA	1:B:292:TYR:CD2	2.43	0.54
1:A:292:TYR:CD2	1:B:11:PRO:HA	2.43	0.52
1:A:16[A]:VAL:HG12	1:A:57:ARG:HG2	1.93	0.50
1:B:181:PRO:HB2	1:B:182:PRO:HD3	1.94	0.49
1:A:11:PRO:HA	1:B:292:TYR:CE2	2.49	0.48
1:B:101:ARG:HD3	1:B:115:GLU:OE1	2.15	0.47
1:B:6:GLU:OE2	4:B:404:9D2:C	2.63	0.46
1:A:181:PRO:HB2	1:A:182:PRO:HD3	1.97	0.45
1:A:292:TYR:CE2	1:B:11:PRO:HA	2.52	0.44
1:A:6:GLU:OE2	4:A:404:9D2:C	2.66	0.43
1:B:271:GLU:N	1:B:272:PRO:CD	2.82	0.43

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Atom-1	Atom-2	$\begin{array}{c} {\rm Interatomic} \\ {\rm distance} \ ({\rm \AA}) \end{array}$	Clash overlap (Å)
1:A:101:ARG:HD3	1:A:115:GLU:OE1	2.20	0.42

All (1) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	$\begin{array}{c} {\rm Interatomic} \\ {\rm distance} \ ({\rm \AA}) \end{array}$	Clash overlap (Å)	
7:A:749:HOH:O	7:B:551:HOH:O[1_455]	2.15	0.05	

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 Percenti		ntiles
1	A	302/330~(92%)	299 (99%)	3 (1%)	0	100	100
1	В	300/330 (91%)	297 (99%)	3 (1%)	0	100	100
All	All	602/660 (91%)	596 (99%)	6 (1%)	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	261/276 (95%)	261 (100%)	0	100	100	
1	В	259/276 (94%)	259 (100%)	0	100	100	

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Mol	Chain	Analysed	Rotameric			
All	All	520/552 (94%)	520 (100%)	0	100	100

There are no protein residues with a non-rotameric sidechain to report.

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 14 ligands modelled in this entry, 4 are monoatomic - leaving 10 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	Tuna	Chain	Res	Link	Во	Bond lengths			Bond angles		
IVIOI	Type	Chain	nes	LIIIK	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2	
2	LA6	В	401[A]	3	17,19,19	0.66	0	18,27,27	0.90	1 (5%)	
6	GOL	A	406	-	5,5,5	0.88	0	5,5,5	0.90	0	
6	GOL	В	406	-	5,5,5	0.93	0	5,5,5	1.01	0	
2	LA6	A	401[A]	3	17,19,19	0.84	1 (5%)	18,27,27	0.79	0	
4	9D2	В	404	-	8,8,8	0.23	0	10,10,10	0.79	0	
5	NDS	В	405	-	11,11,11	0.46	0	15,16,16	0.48	0	
5	NDS	A	405	-	11,11,11	0.46	0	15,16,16	0.51	0	



	Mol	Type	Chain	Res	Link	Bond lengths				Bond angles		
-	IVIOI	туре		rtes	LIIIK	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2	
	4	9D2	A	404	-	8,8,8	0.26	0	10,10,10	0.67	0	
	2	LA6	В	401[B]	3	17,19,19	0.81	0	18,27,27	0.72	0	
	2	LA6	A	401[B]	3	17,19,19	0.66	0	18,27,27	0.79	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
2	LA6	В	401[A]	3	-	3/16/22/22	-
6	GOL	A	406	-	=	0/4/4/4	-
6	GOL	В	406	-	-	2/4/4/4	-
2	LA6	A	401[A]	3	-	3/16/22/22	-
4	9D2	В	404	-	-	0/12/12/12	_
5	NDS	В	405	-	-	0/11/11/11	-
5	NDS	A	405	-	-	0/11/11/11	_
4	9D2	A	404	-	-	0/12/12/12	-
2	LA6	В	401[B]	3	-	4/16/22/22	-
2	LA6	A	401[B]	3	=	1/16/22/22	-

All (1) bond length outliers are listed below:

\mathbf{Mol}	Chain	Res	Type	Atoms	\mathbf{Z}	$\operatorname{Observed}(\operatorname{\AA})$	$\operatorname{Ideal}(ext{\AA})$
2	A	401[A]	LA6	C3-C2	2.68	1.35	1.32

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
2	В	401[A]	LA6	PA-O3A-PB	-2.21	125.26	132.83

There are no chirality outliers.

All (13) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	401[A]	LA6	C1-O1-PA-O3A
2	В	401[A]	LA6	C1-O1-PA-O1A
2	В	401[A]	LA6	C1-O1-PA-O2A
2	В	401[A]	LA6	C1-O1-PA-O3A
2	В	401[B]	LA6	PA-O3A-PB-O2B

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Mol	Chain	Res	Type	Atoms
6	В	406	GOL	O1-C1-C2-O2
6	В	406	GOL	O1-C1-C2-C3
2	A	401[B]	LA6	PA-O3A-PB-O2B
2	A	401[A]	LA6	C1-O1-PA-O1A
2	A	401[A]	LA6	C1-O1-PA-O2A
2	В	401[B]	LA6	PA-O3A-PB-O1B
2	В	401[B]	LA6	C1-O1-PA-O1A
2	В	401[B]	LA6	PA-O3A-PB-O3B

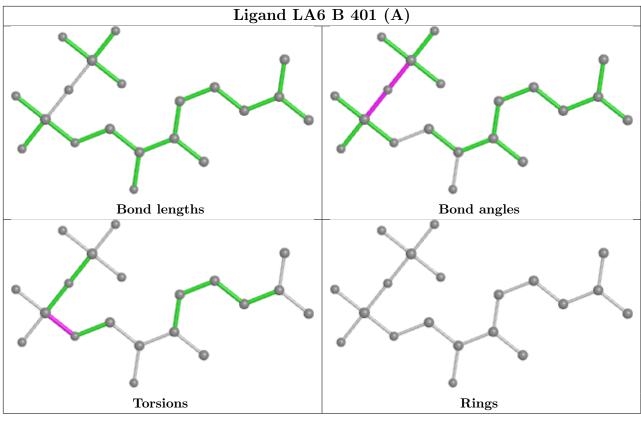
There are no ring outliers.

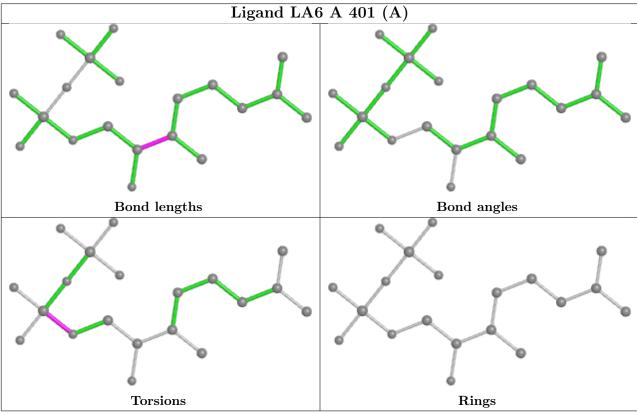
2 monomers are involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	В	404	9D2	1	0
4	A	404	9D2	1	0

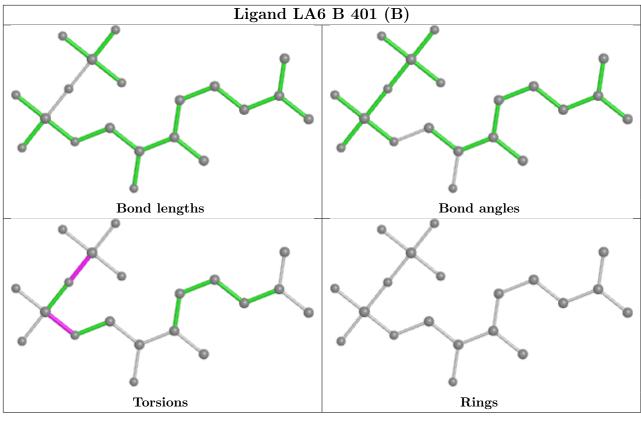
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less 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.

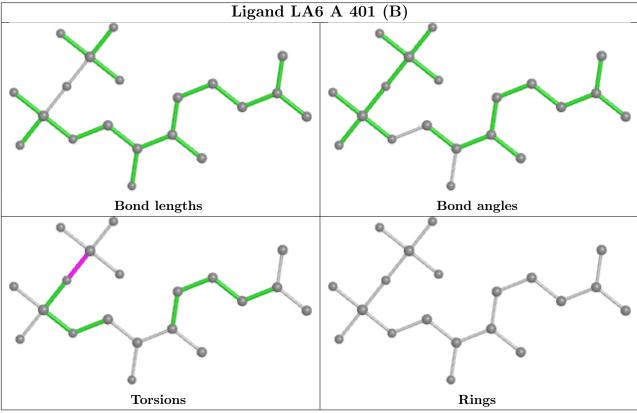














5.7 Other polymers (i)

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	<RSRZ $>$	$\#\mathrm{RSRZ}{>}2$	$OWAB(A^2)$	Q<0.9
1	A	305/330~(92%)	-0.25	5 (1%) 72 73	10, 18, 41, 70	0
1	В	305/330~(92%)	-0.14	11 (3%) 42 40	11, 18, 45, 83	0
All	All	610/660 (92%)	-0.19	16 (2%) 56 55	10, 18, 44, 83	0

All (16) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	317	VAL	3.2
1	В	92	PRO	3.1
1	В	4	GLY	3.1
1	В	93	ARG	2.9
1	В	156	ALA	2.7
1	A	157	THR	2.6
1	A	318	HIS	2.5
1	В	243	HIS	2.4
1	В	328	THR	2.2
1	В	318	HIS	2.2
1	В	179	PHE	2.1
1	A	93	ARG	2.1
1	A	156	ALA	2.1
1	В	96	ALA	2.1
1	В	158	ASN	2.1
1	В	58	TRP	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.

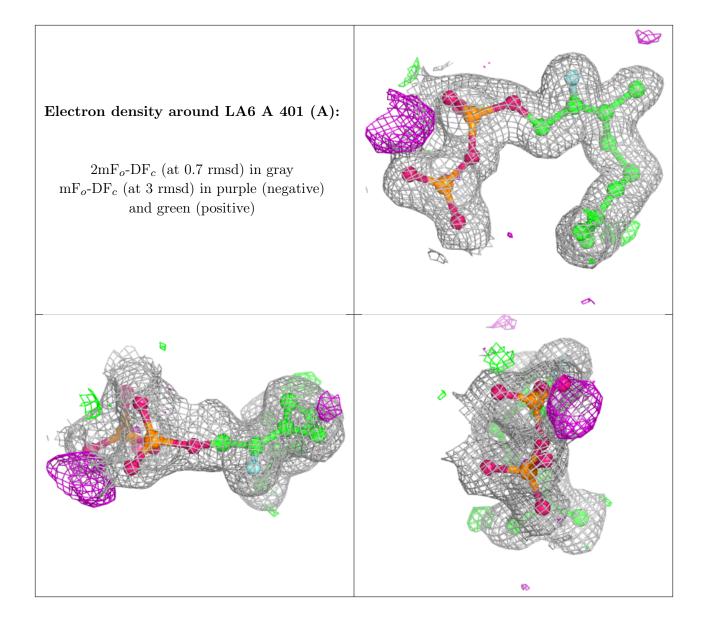
6.4 Ligands (i)

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, 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.

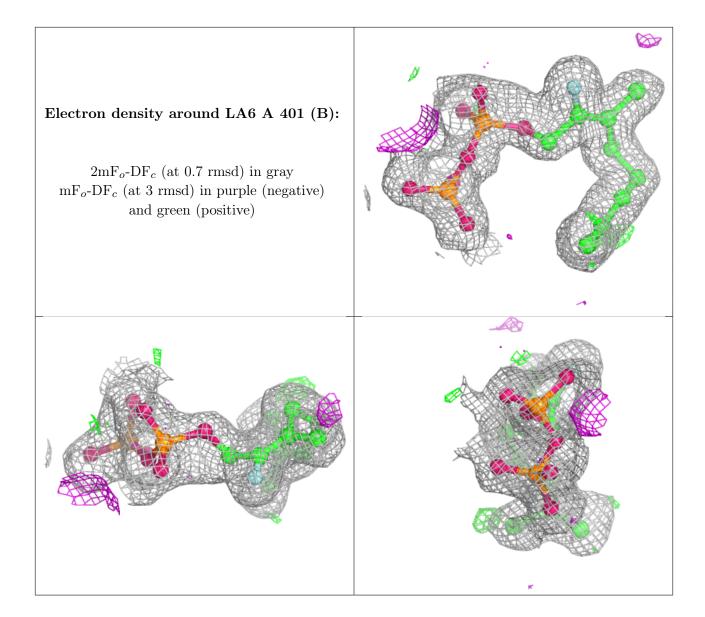
Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\operatorname{\textbf{B-factors}}(\mathring{\mathbf{A}}^2)$	Q<0.9
6	GOL	A	406	6/6	0.88	0.14	55,60,64,66	0
6	GOL	В	406	6/6	0.88	0.14	57,69,73,73	0
5	NDS	A	405	12/12	0.90	0.17	29,53,60,60	0
5	NDS	В	405	12/12	0.90	0.17	28,52,67,68	0
4	9D2	A	404	9/9	0.96	0.06	15,19,21,25	0
4	9D2	В	404	9/9	0.96	0.06	15,19,22,25	0
3	MG	A	403	1/1	0.96	0.29	28,28,28,28	0
3	MG	В	403	1/1	0.97	0.23	30,30,30,30	0
2	LA6	A	401[A]	20/20	0.98	0.09	14,15,18,19	20
2	LA6	A	401[B]	20/20	0.98	0.09	14,15,18,18	20
2	LA6	В	401[A]	20/20	0.98	0.12	15,17,20,23	20
2	LA6	В	401[B]	20/20	0.98	0.12	15,16,18,19	20
3	MG	В	402	1/1	0.99	0.03	17,17,17,17	0
3	MG	A	402	1/1	1.00	0.04	15,15,15,15	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 LA6 B 401 (A): $2 \mathrm{mF}_o\text{-}\mathrm{DF}_c$ (at 0.7 rmsd) in gray ${\rm mF}_o\text{-}{\rm DF}_c$ (at 3 rmsd) in purple (negative) and green (positive) Electron density around LA6 B 401 (B): $2 \mathrm{mF}_o\text{-}\mathrm{DF}_c$ (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.

