



# Full wwPDB X-ray Structure Validation Report i

Jan 5, 2026 – 05:09 PM JST

PDB ID : 9LES / pdb\_00009les  
Title : Structure of FtmoX1 complexes with alkylamine derivative products  
Authors : Liang, H.R.  
Deposited on : 2025-01-07  
Resolution : 1.69 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](mailto: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>.

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The following versions of software and data (see [references](#) ①) were used in the production of this report:

MolProbity : 4.5-2 with Phenix2.0  
Mogul : 1.8.5 (274361), CSD as541be (2020)  
Xtriage (Phenix) : 2.0  
EDS : 3.0  
buster-report : 1.1.7 (2018)  
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)  
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) : 2.47

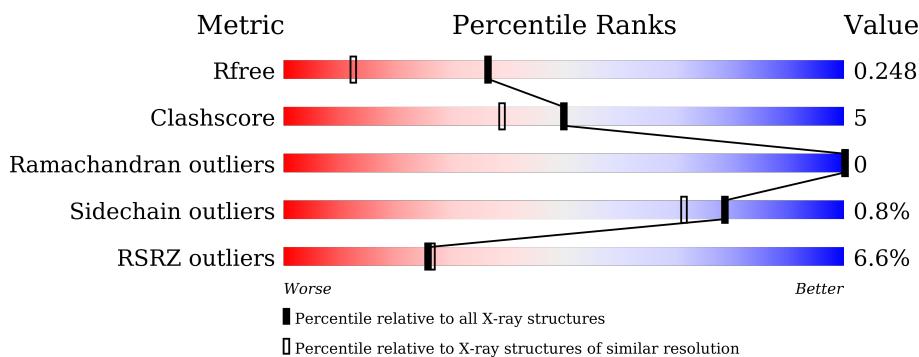
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

## X-RAY DIFFRACTION

The reported resolution of this entry is 1.69 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))
$R_{free}$	164625	5161 (1.70-1.70)
Clashscore	180529	5671 (1.70-1.70)
Ramachandran outliers	177936	5594 (1.70-1.70)
Sidechain outliers	177891	5594 (1.70-1.70)
RSRZ outliers	164620	5159 (1.70-1.70)

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  $\geq 3$ , 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	290	6%	89% 10% .
1	B	290	7%	86% 13% .

## 2 Entry composition (i)

There are 5 unique types of molecules in this entry. The entry contains 5129 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.

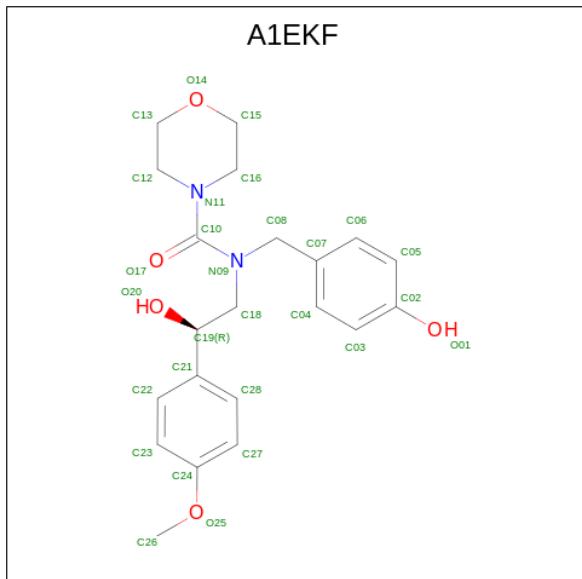
- Molecule 1 is a protein called Verruculogen synthase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	287	Total	C 2260	N 1435	O 394	S 418	13	0	0
1	B	285	Total	C 2244	N 1426	O 391	S 414	13	0	0

There are 4 discrepancies between the modelled and reference sequences:

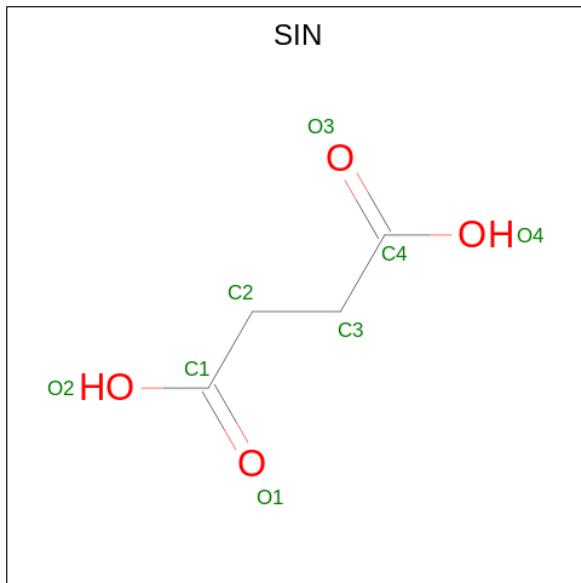
Chain	Residue	Modelled	Actual	Comment	Reference
A	89	VAL	ILE	conflict	UNP B9WZX5
A	148	VAL	ILE	conflict	UNP B9WZX5
B	89	VAL	ILE	conflict	UNP B9WZX5
B	148	VAL	ILE	conflict	UNP B9WZX5

- Molecule 2 is {N}-[(4-hydroxyphenyl)methyl]- {N}-[(2 {R})-2-(4-methoxyphenyl)-2-oxidan yl-ethyl]morpholine-4-carboxamide (CCD ID: A1EKF) (formula: C<sub>21</sub>H<sub>26</sub>N<sub>2</sub>O<sub>5</sub>) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	1	Total C N O 28 21 2 5	0	0
2	B	1	Total C N O 28 21 2 5	0	0

- Molecule 3 is SUCCINIC ACID (CCD ID: SIN) (formula: C<sub>4</sub>H<sub>6</sub>O<sub>4</sub>).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total C O 8 4 4	0	0

- Molecule 4 is COBALT (II) ION (CCD ID: CO) (formula: Co).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	1	Total Co 1 1	0	0
4	B	3	Total Co 3 3	0	0

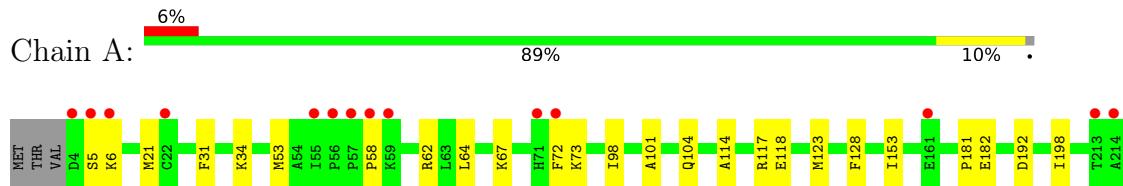
- Molecule 5 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	267	Total O 267 267	0	0
5	B	290	Total O 290 290	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: Verruculogen synthase



## 4 Data and refinement statistics i

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	74.14 Å 81.49 Å 91.89 Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	30.48 – 1.69 30.48 – 1.69	Depositor EDS
% Data completeness (in resolution range)	92.4 (30.48-1.69) 92.4 (30.48-1.69)	Depositor EDS
$R_{merge}$	(Not available)	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle^1$	2.04 (at 1.69 Å)	Xtriage
Refinement program	PHENIX (1.20.1_4487: ???)	Depositor
$R$ , $R_{free}$	0.201, 0.248 0.200, 0.248	Depositor DCC
$R_{free}$ test set	3088 reflections (4.90%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	14.8	Xtriage
Anisotropy	0.472	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.35, 39.1	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.49$ , $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.95	EDS
Total number of atoms	5129	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	18.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.98% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

<sup>2</sup>Theoretical 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: A1EKF, SIN, CO

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	0.32	0/2316	0.54	0/3156
1	B	0.33	0/2300	0.59	0/3136
All	All	0.32	0/4616	0.57	0/6292

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	2260	0	2239	23	0
1	B	2244	0	2224	28	0
2	A	28	0	0	0	0
2	B	28	0	0	0	0
3	A	8	0	4	0	0
4	A	1	0	0	0	0
4	B	3	0	0	0	0
5	A	267	0	0	2	0
5	B	290	0	0	7	0
All	All	5129	0	4467	47	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 5.

All (47) 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:267:ILE:HD12	1:B:268:VAL:HG23	1.62	0.81
1:B:285:LYS:HA	1:B:285:LYS:HE3	1.65	0.78
1:B:58:PRO:HD2	1:B:62:ARG:HD3	1.65	0.77
1:A:53:MET:HE1	1:A:73:LYS:HB3	1.71	0.71
1:A:58:PRO:HD2	1:A:62:ARG:HD3	1.76	0.66
1:A:153:ILE:HG12	1:A:222:LEU:HD12	1.80	0.62
1:B:6:LYS:N	5:B:404:HOH:O	2.32	0.61
1:A:267:ILE:HD12	1:A:268:VAL:HG23	1.84	0.60
1:A:101:ALA:O	1:A:104:GLN:HG3	2.02	0.59
1:A:73:LYS:HB2	1:A:118:GLU:HB2	1.85	0.59
1:B:213:THR:HG21	5:B:627:HOH:O	2.03	0.59
1:B:159:PHE:HB2	1:B:191:MET:HB2	1.85	0.57
1:A:64:LEU:HD13	1:B:268:VAL:HG21	1.86	0.56
1:A:98:ILE:HD13	1:A:198:ILE:HD12	1.87	0.56
1:A:67:LYS:HE3	1:B:267:ILE:O	2.08	0.54
1:B:79:ALA:O	1:B:86:ARG:HD3	2.08	0.53
1:B:189:ALA:O	1:B:191:MET:HG3	2.11	0.51
1:A:72:PHE:CE2	1:A:123:MET:HE1	2.48	0.49
1:A:268:VAL:HG21	1:B:64:LEU:HG	1.94	0.49
1:B:114:ALA:HA	1:B:222:LEU:O	2.13	0.48
1:B:202:ARG:HD2	5:B:408:HOH:O	2.14	0.47
1:B:19:ASP:O	1:B:23:ARG:HG3	2.15	0.47
1:B:161:GLU:HG3	1:B:188:LEU:CD1	2.46	0.46
1:B:154:PHE:O	1:B:156:LEU:HD22	2.16	0.46
1:A:128:PHE:CD2	1:A:181:PRO:HG2	2.51	0.45
1:B:71:HIS:CD2	1:B:72:PHE:HD1	2.35	0.45
1:A:73:LYS:HE2	5:A:471:HOH:O	2.17	0.45
1:B:244:VAL:HG21	1:B:257:TRP:CE2	2.51	0.45
1:A:21:MET:HB3	1:A:31:PHE:CZ	2.52	0.45
1:A:117:ARG:HH11	1:A:117:ARG:HG2	1.82	0.45
1:A:267:ILE:CD1	1:A:268:VAL:HG23	2.47	0.44
1:B:34:LYS:HD2	1:B:34:LYS:HA	1.68	0.44
1:A:72:PHE:CZ	1:A:123:MET:HE1	2.52	0.44
1:A:98:ILE:HD13	1:A:198:ILE:CD1	2.47	0.44
1:A:6:LYS:HA	1:A:6:LYS:HD3	1.72	0.44
1:B:20:ARG:NE	5:B:403:HOH:O	2.30	0.43
1:B:283:GLN:HG2	5:B:499:HOH:O	2.18	0.43
1:B:22:CYS:SG	5:B:635:HOH:O	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:114:ALA:HA	1:A:222:LEU:O	2.20	0.42
1:B:186:ALA:O	5:B:401:HOH:O	2.22	0.42
1:A:192:ASP:OD2	5:A:401:HOH:O	2.21	0.42
1:A:64:LEU:HD13	1:B:268:VAL:CG2	2.50	0.42
1:B:123:MET:HE3	1:B:123:MET:HB3	1.78	0.41
1:B:64:LEU:HD13	1:B:74:TYR:CZ	2.56	0.41
1:A:34:LYS:HA	1:A:34:LYS:HD2	1.86	0.41
1:B:39:PHE:CD1	1:B:39:PHE:C	2.99	0.40
1:B:21:MET:HE2	1:B:33:LEU:HD21	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	285/290 (98%)	280 (98%)	5 (2%)	0	100 100
1	B	283/290 (98%)	278 (98%)	5 (2%)	0	100 100
All	All	568/580 (98%)	558 (98%)	10 (2%)	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	247/252 (98%)	244 (99%)	3 (1%)	67	56
1	B	245/252 (97%)	244 (100%)	1 (0%)	89	85
All	All	492/504 (98%)	488 (99%)	4 (1%)	79	71

All (4) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	5	SER
1	A	182	GLU
1	A	272	LEU
1	B	272	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (4) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	104	GLN
1	B	10	GLN
1	B	71	HIS
1	B	141	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 oligosaccharides 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$
2	A1EKF	A	301	-	30,30,30	1.69	3 (10%)	38,40,40	1.75	6 (15%)
2	A1EKF	B	301	-	30,30,30	1.53	4 (13%)	38,40,40	1.74	8 (21%)
3	SIN	A	302	4	7,7,7	1.09	0	8,8,8	1.60	2 (25%)

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	A1EKF	A	301	-	-	3/22/30/30	0/3/3/3
2	A1EKF	B	301	-	-	3/22/30/30	0/3/3/3
3	SIN	A	302	4	-	4/5/5/5	-

All (7) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	301	A1EKF	C10-N09	5.65	1.48	1.36
2	B	301	A1EKF	C10-N09	4.07	1.45	1.36
2	A	301	A1EKF	C10-N11	4.04	1.45	1.36
2	A	301	A1EKF	C18-C19	3.90	1.62	1.52
2	B	301	A1EKF	C10-N11	3.76	1.44	1.36
2	B	301	A1EKF	C18-C19	3.30	1.60	1.52
2	B	301	A1EKF	C18-N09	-2.07	1.43	1.47

All (16) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	301	A1EKF	C18-C19-C21	6.33	122.78	110.69
2	B	301	A1EKF	C18-C19-C21	5.46	121.12	110.69
2	B	301	A1EKF	O17-C10-N09	-3.70	115.67	123.80
2	A	301	A1EKF	O17-C10-N11	-3.67	115.74	123.80
2	B	301	A1EKF	C16-N11-C12	-3.66	105.58	112.62
2	A	301	A1EKF	O20-C19-C21	-3.52	103.03	111.15
2	A	301	A1EKF	O17-C10-N09	-3.34	116.45	123.80
2	A	301	A1EKF	C16-N11-C12	-3.20	106.46	112.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	301	A1EKF	C19-C18-N09	-3.12	105.51	112.62
2	A	301	A1EKF	C19-C18-N09	-2.98	105.82	112.62
2	B	301	A1EKF	O17-C10-N11	-2.96	117.30	123.80
2	B	301	A1EKF	O20-C19-C21	-2.88	104.50	111.15
2	B	301	A1EKF	C16-N11-C10	2.34	130.74	121.14
3	A	302	SIN	O4-C4-C3	2.31	121.44	114.03
2	B	301	A1EKF	C15-C16-N11	-2.17	105.22	109.84
3	A	302	SIN	O4-C4-O3	-2.15	117.93	123.30

There are no chirality outliers.

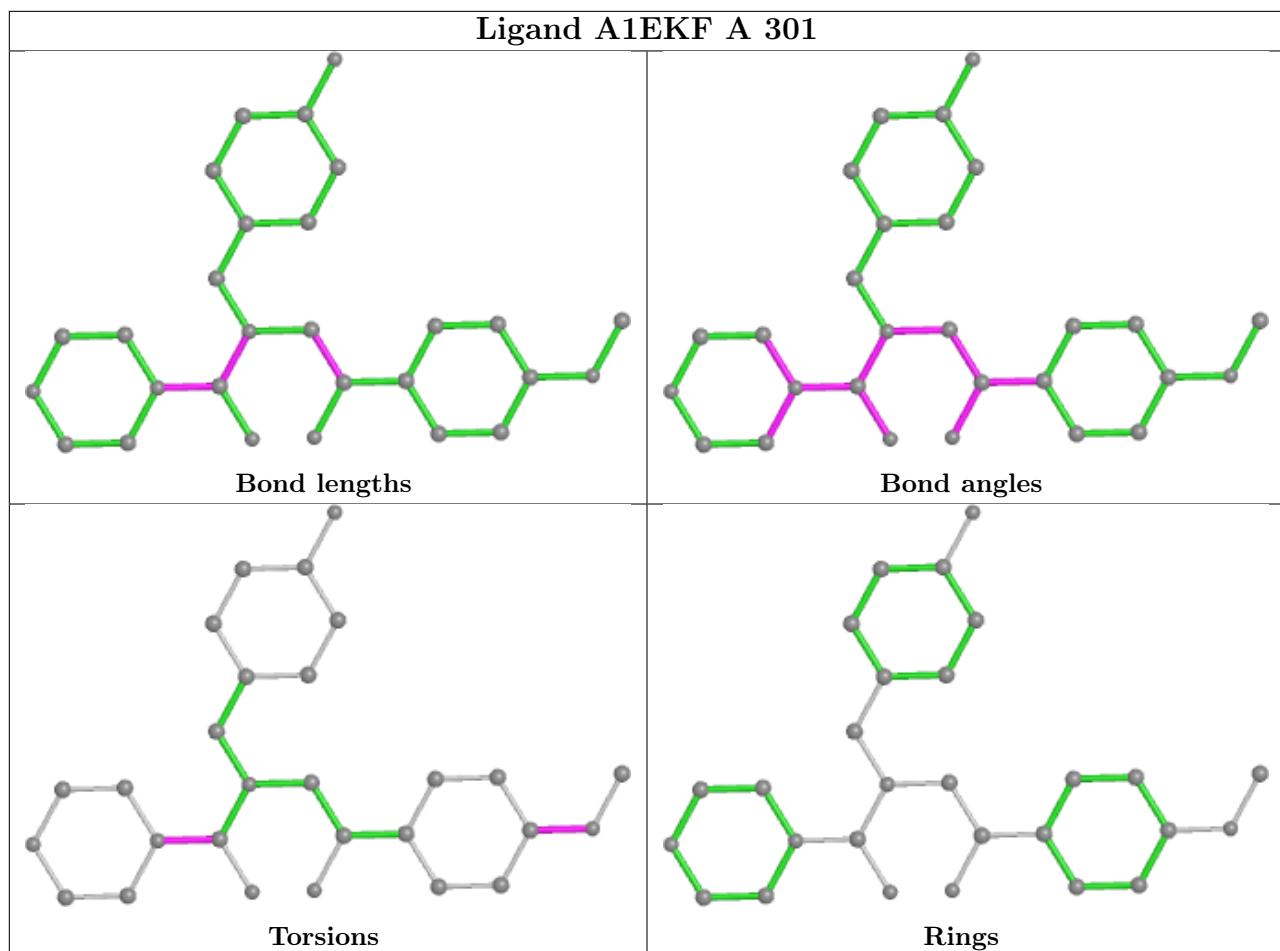
All (10) torsion outliers are listed below:

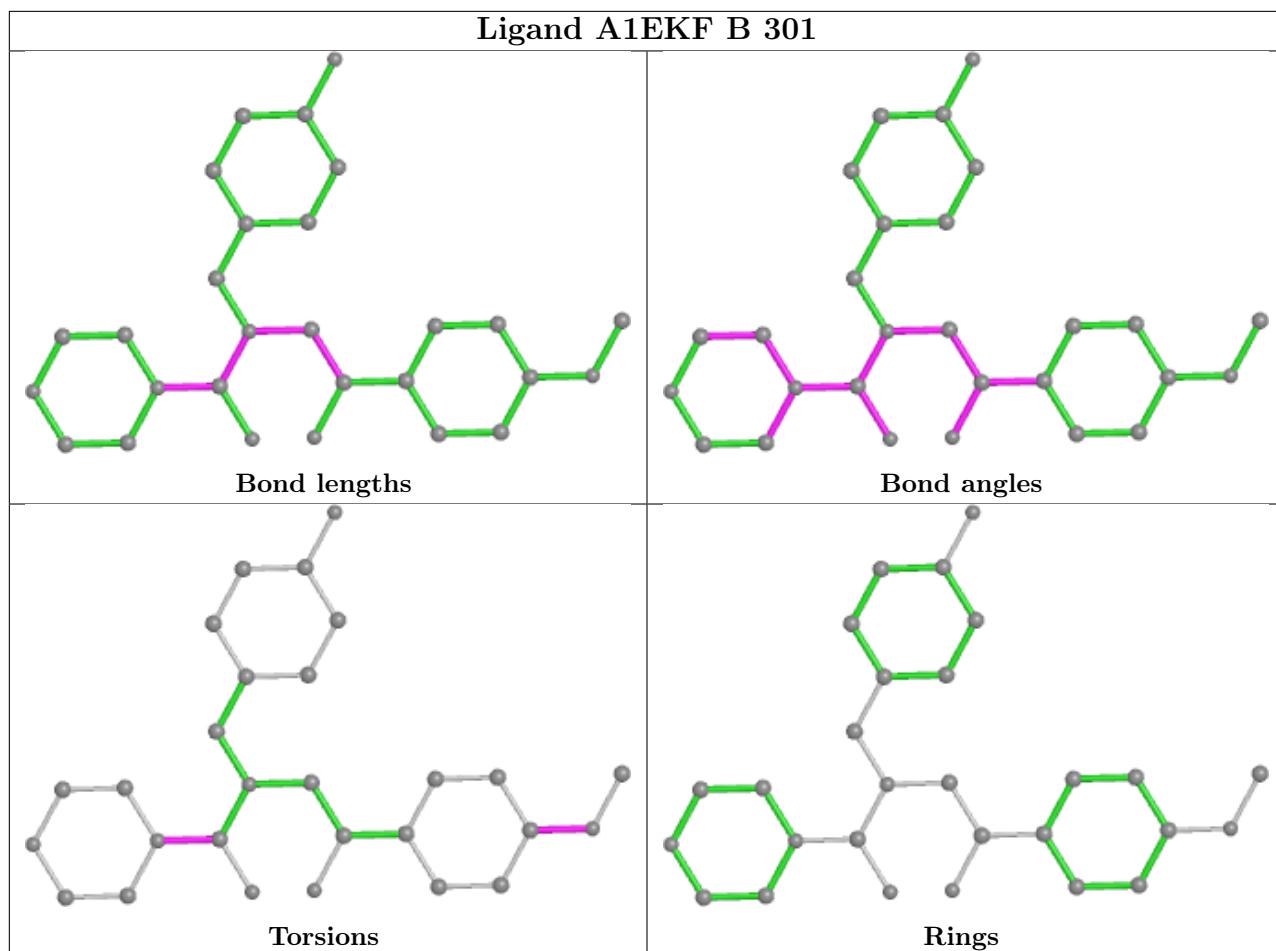
Mol	Chain	Res	Type	Atoms
2	A	301	A1EKF	C27-C24-O25-C26
2	A	301	A1EKF	C23-C24-O25-C26
2	B	301	A1EKF	C23-C24-O25-C26
2	B	301	A1EKF	C27-C24-O25-C26
3	A	302	SIN	O1-C1-C2-C3
3	A	302	SIN	C2-C3-C4-O3
3	A	302	SIN	O2-C1-C2-C3
3	A	302	SIN	C2-C3-C4-O4
2	A	301	A1EKF	N09-C10-N11-C12
2	B	301	A1EKF	N09-C10-N11-C16

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, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
1	A	287/290 (98%)	0.18	18 (6%) 27 28	6, 15, 37, 57	0
1	B	285/290 (98%)	0.18	20 (7%) 24 24	6, 15, 39, 56	0
All	All	572/580 (98%)	0.18	38 (6%) 26 26	6, 15, 38, 57	0

All (38) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	213	THR	4.8
1	B	71	HIS	4.3
1	B	290	PRO	4.2
1	A	58	PRO	4.2
1	A	56	PRO	4.0
1	B	70	PRO	4.0
1	B	72	PHE	3.9
1	A	215	GLY	3.8
1	A	290	PRO	3.8
1	A	59	LYS	3.6
1	A	214	ALA	3.5
1	A	57	PRO	3.3
1	A	72	PHE	3.3
1	A	289	SER	3.0
1	A	22	CYS	3.0
1	B	58	PRO	3.0
1	A	71	HIS	2.9
1	A	4	ASP	2.9
1	B	60	GLY	2.8
1	B	6	LYS	2.8
1	A	161	GLU	2.8
1	A	55	ILE	2.6
1	B	214	ALA	2.6
1	B	123	MET	2.6

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Mol	Chain	Res	Type	RSRZ
1	B	213	THR	2.6
1	A	5	SER	2.6
1	B	39	PHE	2.4
1	B	212	THR	2.3
1	B	215	GLY	2.3
1	B	68	TYR	2.3
1	B	69	PRO	2.2
1	A	287	ALA	2.2
1	A	6	LYS	2.2
1	B	67	LYS	2.1
1	B	57	PRO	2.1
1	B	124	PRO	2.1
1	B	59	LYS	2.0
1	B	55	ILE	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 oligosaccharides in this entry.

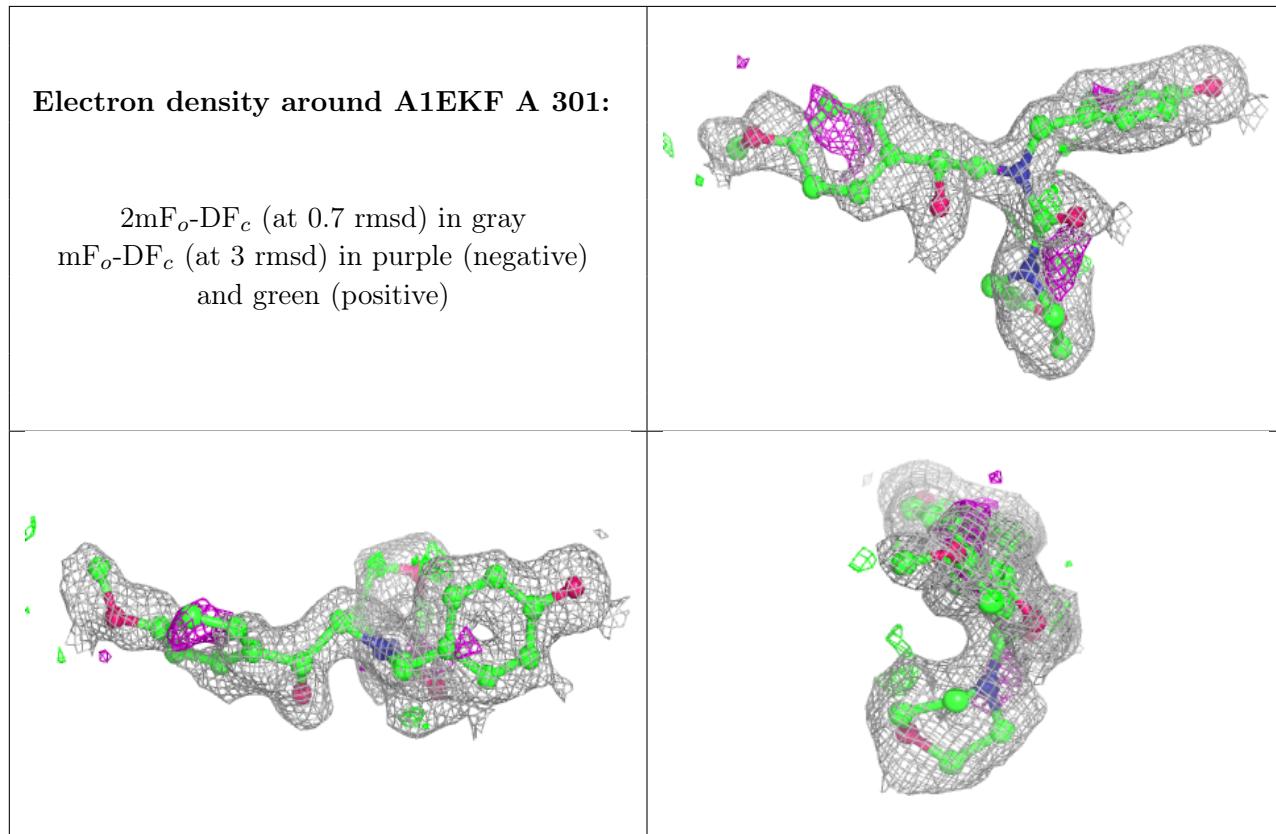
## 6.4 Ligands [\(i\)](#)

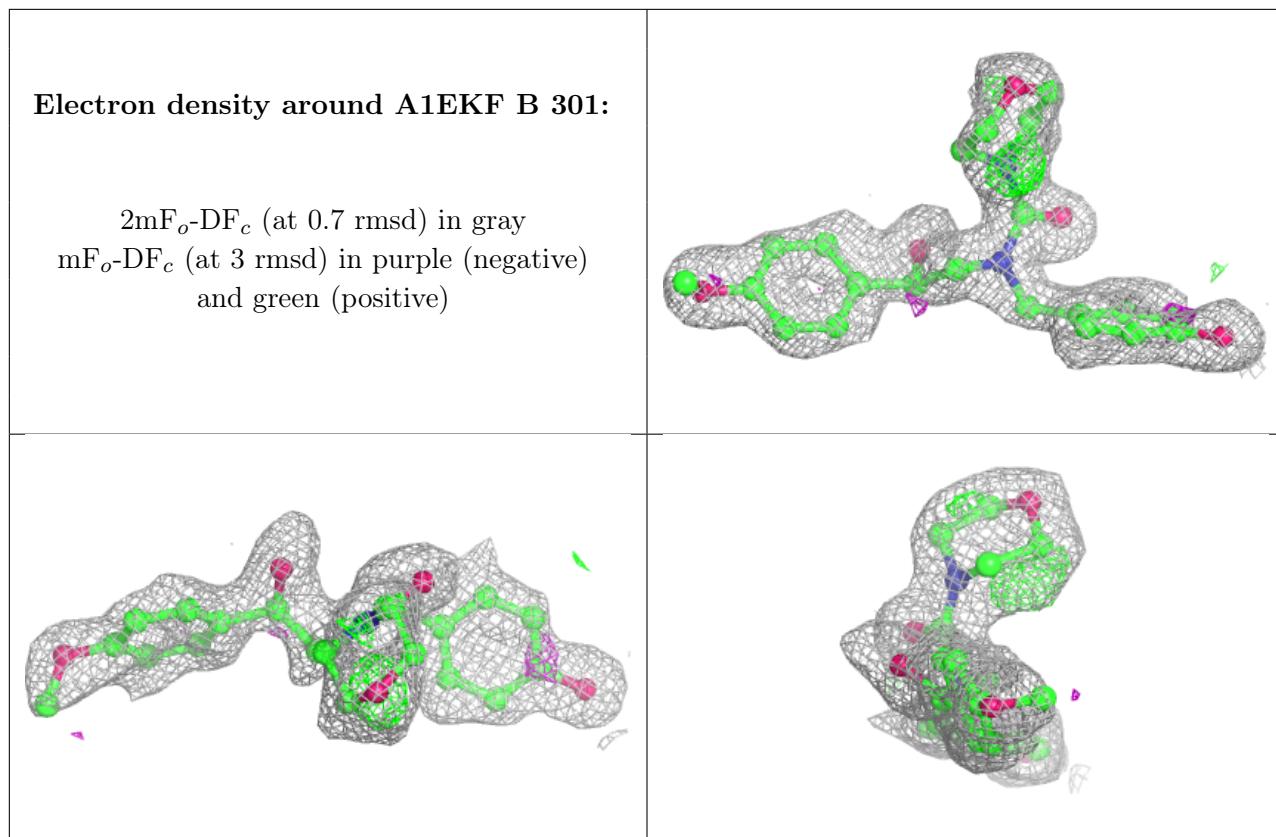
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95<sup>th</sup> percentile and maximum values of B factors of atoms in the group. The column labelled 'Q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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
3	SIN	A	302	8/8	0.63	0.16	20,31,34,39	0
2	A1EKF	A	301	28/28	0.86	0.12	12,24,31,32	0
2	A1EKF	B	301	28/28	0.90	0.10	9,21,31,32	0
4	CO	B	302	1/1	0.94	0.19	36,36,36,36	0
4	CO	B	303	1/1	0.95	0.23	42,42,42,42	0
4	CO	A	303	1/1	0.97	0.09	24,24,24,24	0
4	CO	B	304	1/1	0.97	0.12	28,28,28,28	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.





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

There are no such residues in this entry.