

# Full wwPDB X-ray Structure Validation Report (i)

#### Mar 24, 2022 – 12:30 pm GMT

PDB ID	:	6RZ4
Title	:	Crystal structure of cysteinyl leukotriene receptor 1 in complex with pranlukast
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		Liu, W.; Batyuk, A.; Gordeliy, V.; Han, G.W.; Sarret, P.; Katritch, V.; Bor-
		shchevskiy, V.; Cherezov, V.
Deposited on	:	2019-06-12
Resolution	:	2.70  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.

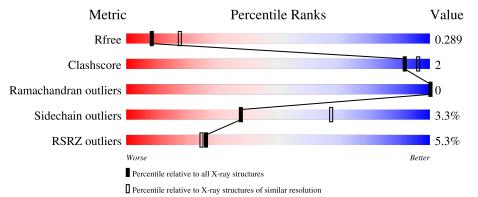
The following versions of software and data (see references (1)) were used in the production of this report:

# 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 2.70 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	$egin{array}{c} { m Whole \ archive} \ (\#{ m Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries,\ resolution\ range}({ m \AA}))$
$R_{free}$	130704	2808 (2.70-2.70)
Clashscore	141614	3122 (2.70-2.70)
Ramachandran outliers	138981	3069 (2.70-2.70)
Sidechain outliers	138945	3069 (2.70-2.70)
RSRZ outliers	127900	2737 (2.70-2.70)

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 >=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				
			5%				
1	А	423	87%	6%	7%		

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard 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
4	OLC	А	2010	-	-	-	X



# 2 Entry composition (i)

There are 6 unique types of molecules in this entry. The entry contains 3206 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 Cysteinyl leukotriene receptor 1,Soluble cytochrome b562,Cysteinyl leukotriene receptor 1.

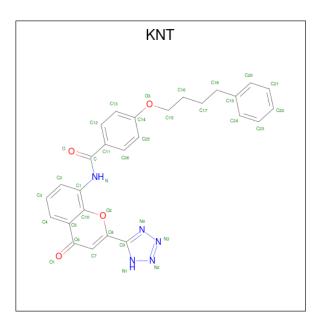
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
1	А	395	Total 3020	C 1974	N 488	O 533	S 25	0	2	0

There are 9 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-2	GLY	-	expression tag	UNP Q9Y271
А	-1	GLY	-	expression tag	UNP Q9Y271
А	0	THR	-	expression tag	UNP Q9Y271
А	1000	SER	-	linker	UNP Q9Y271
А	1007	TRP	MET	conflict	UNP P0ABE7
А	1102	ILE	HIS	conflict	UNP P0ABE7
А	1106	LEU	-	linker	UNP P0ABE7
А	?	SER	-	linker	UNP P0ABE7
А	?	GLY	-	linker	UNP P0ABE7

• Molecule 2 is pranlukast (three-letter code: KNT) (formula:  $C_{27}H_{23}N_5O_4$ ) (labeled as "Ligand of Interest" by depositor).



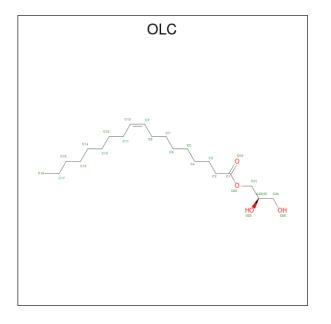


Mol	Chain	Residues	A	ton	ns		ZeroOcc	AltConf
2	А	1	Total 36	C 27	N 5	0 4	0	0

• Molecule 3 is SODIUM ION (three-letter code: NA) (formula: Na).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	А	1	Total Na 1 1	0	0

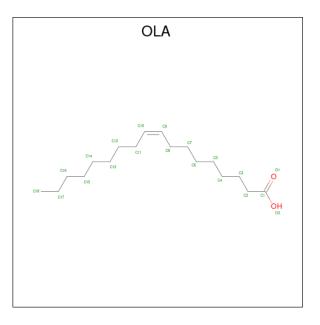
• Molecule 4 is (2R)-2,3-dihydroxypropyl (9Z)-octadec-9-enoate (three-letter code: OLC) (formula:  $C_{21}H_{40}O_4$ ).





6RZ4

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	А	1	Total         C         O           13         9         4	0	0
4	А	1	Total         C         O           12         8         4	0	0
4	А	1	Total         C         O           25         21         4	0	0
4	А	1	Total C 7 7	0	0
4	А	1	Total         C         O           21         17         4	0	0
4	А	1	Total C 17 17	0	0
4	А	1	Total C 6 6	0	0
4	А	1	Total         C         O           10         6         4	0	0
4	А	1	Total C 11 11	0	0



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	А	1	Total         C         O           11         9         2	0	0

• Molecule 6 is water.



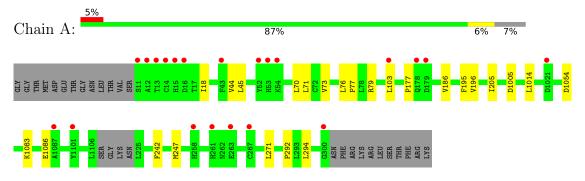
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	А	16	Total         O           16         16	0	0



# 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.

 $\bullet$  Molecule 1: Cysteinyl leukotriene receptor 1,<br/>Soluble cytochrome b562, Cysteinyl leukotriene receptor 1





## 4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants	58.63Å $45.35$ Å $86.43$ Å	Depositor
a, b, c, $\alpha$ , $\beta$ , $\gamma$	$90.00^{\circ}$ $91.47^{\circ}$ $90.00^{\circ}$	Depositor
Resolution (Å)	29.30 - 2.70	Depositor
Resolution (A)	29.31 - 2.70	EDS
% Data completeness	99.9 (29.30-2.70)	Depositor
(in resolution range)	99.9(29.31-2.70)	EDS
R <sub>merge</sub>	0.27	Depositor
R <sub>sym</sub>	(Not available)	Depositor
$< I/\sigma(I) > 1$	$1.45 (at 2.68 \text{\AA})$	Xtriage
Refinement program	BUSTER 2.10.3	Depositor
D D.	0.228 , $0.254$	Depositor
$R, R_{free}$	0.262 , $0.289$	DCC
$R_{free}$ test set	641 reflections $(5.03%)$	wwPDB-VP
Wilson B-factor $(Å^2)$	42.9	Xtriage
Anisotropy	0.305	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$ , $B_{sol}(Å^2)$	(Not available), (Not available)	EDS
L-test for twinning <sup>2</sup>	$<  L  > = 0.43, < L^2 > = 0.26$	Xtriage
Estimated twinning fraction	0.052 for h,-k,-l	Xtriage
$F_o, F_c$ correlation	0.89	EDS
Total number of atoms	3206	wwPDB-VP
Average B, all atoms $(Å^2)$	65.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 8.81% of the height of the origin peak. No significant pseudotranslation is detected.

<sup>&</sup>lt;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.



<sup>&</sup>lt;sup>1</sup>Intensities 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: KNT, NA, OLA, OLC

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		
INIOI	Unain	RMSZ	# Z  > 5	RMSZ	# Z  > 5	
1	А	0.42	0/3091	0.54	0/4213	

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	А	3020	0	2900	10	0
2	А	36	0	0	0	0
3	А	1	0	0	0	0
4	А	122	0	169	2	0
5	А	11	0	14	0	0
6	А	16	0	0	0	0
All	All	3206	0	3083	10	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 (10) 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:A:1083:LYS:HB3	1:A:1086:GLU:HB2	1.85	0.59
1:A:76:LEU:HD23	1:A:79:ARG:HD2	1.85	0.58
1:A:73:VAL:HA	1:A:76:LEU:HD12	1.90	0.53
1:A:196:VAL:HG13	4:A:2005:OLC:H17	1.94	0.50
1:A:70:LEU:HA	1:A:73:VAL:HG22	2.00	0.44
1:A:242:PHE:O	1:A:247:MET:HB2	2.19	0.42
1:A:177:PRO:HG2	1:A:186:VAL:HG21	2.02	0.42
1:A:195:PHE:HE2	4:A:2005:OLC:H13A	1.85	0.41
1:A:44:VAL:HG21	1:A:292:PRO:HA	2.03	0.41
1:A:73:VAL:O	1:A:77:PRO:HD3	2.20	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	А	393/423~(93%)	387~(98%)	6~(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	А	307/375~(82%)	297~(97%)	10 (3%)	38 67	



Mol	Chain	Res	Type
1	А	18	ILE
1	А	45	LEU
1	А	71	LEU
1	А	103	LEU
1	А	205	ILE
1	А	1005	ASP
1	А	1014	LEU
1	А	1054	ASP
1	А	271	LEU
1	А	294	LEU

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

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 12 ligands modelled in this entry, 1 is monoatomic - leaving 11 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	Turne	Chain	Res	Link	Bo	ond leng	$\mathbf{ths}$	Bond angles		
10101	Type	Chain	nes	LIIIK	Counts	RMSZ	# Z >2	Counts	RMSZ	# Z  > 2
4	OLC	А	2005	-	24,24,24	0.62	0	$25,\!25,\!25$	0.89	1 (4%)
4	OLC	А	2008	-	16,16,24	0.36	0	$15,\!15,\!25$	0.73	0
4	OLC	А	2006	-	6,6,24	0.31	0	$5,\!5,\!25$	0.66	0
4	OLC	А	2011	-	10,10,24	0.39	0	9,9,25	0.58	0
4	OLC	А	2003	-	12,12,24	0.77	0	13,13,25	0.99	1 (7%)
4	OLC	А	2009	-	5,5,24	0.59	0	4,4,25	0.51	0
5	OLA	А	2012	-	7,10,19	0.21	0	6,10,19	0.62	0
4	OLC	А	2007	-	20,20,24	0.67	0	21,21,25	0.87	1 (4%)
4	OLC	А	2010	-	9,9,24	0.86	0	10,10,25	1.27	1 (10%)
2	KNT	А	2001	-	38,40,40	0.74	2(5%)	45,54,54	0.68	2 (4%)
4	OLC	А	2004	-	11,11,24	0.80	0	12,12,25	1.00	1 (8%)

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
4	OLC	А	2005	-	-	15/24/24/24	-
4	OLC	А	2008	-	-	9/14/14/24	-
4	OLC	А	2006	-	-	4/4/4/24	-
4	OLC	А	2011	-	-	2/8/8/24	-
4	OLC	А	2003	-	-	8/12/12/24	-
4	OLC	А	2009	-	-	0/3/3/24	-
5	OLA	А	2012	-	-	5/6/8/17	-
4	OLC	А	2007	-	-	9/20/20/24	-
4	OLC	А	2010	-	-	6/9/9/24	-
2	KNT	А	2001	-	-	2/18/20/20	0/5/5/5
4	OLC	А	2004	_	_	7/11/11/24	_

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Ζ	Observed(Å)	$\mathrm{Ideal}(\mathrm{\AA})$
2	А	2001	KNT	C7-C8	2.33	1.41	1.36
2	А	2001	KNT	O1-C6	2.23	1.27	1.23

All (7) bond angle outliers are listed below:



Mol	Chain	Res	Type	Atoms	Ζ	$Observed(^{o})$	$Ideal(^{o})$
4	А	2010	OLC	O20-C1-C2	3.40	120.31	111.38
4	А	2007	OLC	O20-C1-C2	2.56	119.95	111.91
4	А	2005	OLC	O20-C1-C2	2.54	119.88	111.91
4	А	2004	OLC	O20-C1-C2	2.50	119.74	111.91
4	А	2003	OLC	O20-C1-C2	2.42	119.50	111.91
2	А	2001	KNT	C10-C1-N	2.33	118.32	115.42
2	А	2001	KNT	C4-C5-C10	2.08	118.91	116.50

There are no chirality outliers.

Mol	Chain	Res	Type	Atoms
4	А	2003	OLC	C21-C22-C24-O25
4	А	2003	OLC	O20-C21-C22-C24
4	А	2003	OLC	O20-C21-C22-O23
4	А	2004	OLC	C21-C22-C24-O25
4	А	2005	OLC	C21-C22-C24-O25
4	А	2007	OLC	C21-C22-C24-O25
4	А	2007	OLC	O23-C22-C24-O25
4	А	2010	OLC	O20-C21-C22-C24
4	А	2004	OLC	C2-C1-O20-C21
4	А	2005	OLC	C2-C1-O20-C21
4	А	2010	OLC	C2-C1-O20-C21
4	А	2004	OLC	O19-C1-O20-C21
4	А	2005	OLC	O19-C1-O20-C21
4	А	2010	OLC	O19-C1-O20-C21
4	А	2007	OLC	C2-C1-O20-C21
4	А	2003	OLC	O19-C1-O20-C21
4	А	2007	OLC	O19-C1-O20-C21
4	А	2003	OLC	C2-C1-O20-C21
4	А	2010	OLC	O20-C21-C22-O23
4	А	2005	OLC	C1-C2-C3-C4
5	А	2012	OLA	C4-C5-C6-C7
4	А	2005	OLC	C11-C12-C13-C14
4	А	2008	OLC	C13-C14-C15-C16
4	А	2011	OLC	C11-C12-C13-C14
4	А	2008	OLC	C4-C5-C6-C7
5	А	2012	OLA	C5-C6-C7-C8
4	А	2006	OLC	C4-C5-C6-C7
4	А	2004	OLC	C1-C2-C3-C4
4	А	2005	OLC	C14-C15-C16-C17
4	А	2008	OLC	C11-C12-C13-C14
4	А	2005	OLC	C5-C6-C7-C8

All (67) torsion outliers are listed below:

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Mol	Chain	Res	Type	Atoms
4	А	2003	OLC	C1-C2-C3-C4
4	А	2008	OLC	C14-C15-C16-C17
4	А	2005	OLC	O23-C22-C24-O25
4	А	2005	OLC	C10-C11-C12-C13
4	А	2005	OLC	C6-C7-C8-C9
4	А	2007	OLC	C1-C2-C3-C4
4	А	2008	OLC	C3-C4-C5-C6
4	А	2011	OLC	C10-C11-C12-C13
4	А	2008	OLC	C2-C3-C4-C5
4	А	2006	OLC	C5-C6-C7-C8
5	А	2012	OLA	C6-C7-C8-C9
5	А	2012	OLA	C2-C3-C4-C5
4	А	2004	OLC	O23-C22-C24-O25
2	А	2001	KNT	C16-C17-C18-C19
2	А	2001	KNT	C15-C16-C17-C18
4	А	2003	OLC	O23-C22-C24-O25
4	А	2007	OLC	C6-C7-C8-C9
4	А	2008	OLC	C6-C7-C8-C9
4	А	2004	OLC	C2-C3-C4-C5
4	А	2010	OLC	O20-C1-C2-C3
4	А	2006	OLC	C2-C3-C4-C5
4	А	2005	OLC	C9-C10-C11-C12
5	А	2012	OLA	C3-C4-C5-C6
4	А	2010	OLC	O19-C1-C2-C3
4	А	2007	OLC	C2-C3-C4-C5
4	А	2008	OLC	C9-C10-C11-C12
4	А	2005	OLC	O20-C1-C2-C3
4	А	2005	OLC	C7-C8-C9-C10
4	А	2007	OLC	C7-C8-C9-C10
4	А	2006	OLC	C3-C4-C5-C6
4	А	2005	OLC	O19-C1-C2-C3
4	А	2007	OLC	C3-C4-C5-C6
4	А	2005	OLC	C12-C13-C14-C15
4	А	2003	OLC	O20-C1-C2-C3
4	А	2008	OLC	C5-C6-C7-C8
4	А	2004	OLC	O20-C1-C2-C3

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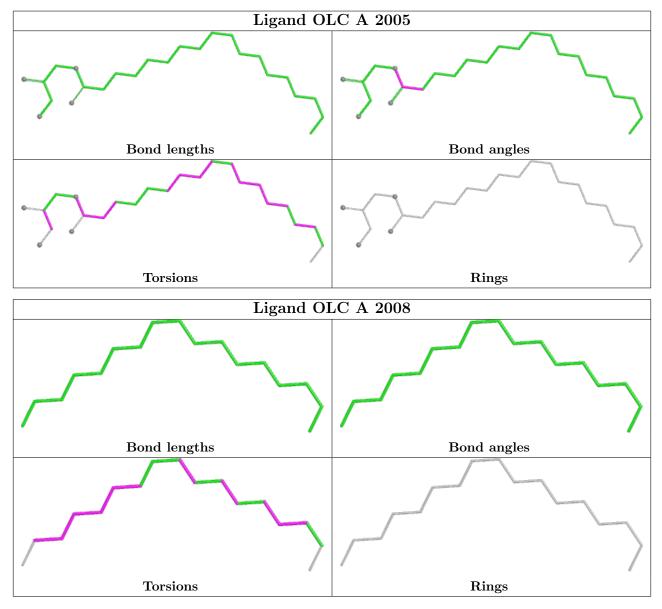
There are no ring outliers.

1 monomer is involved in 2 short contacts:

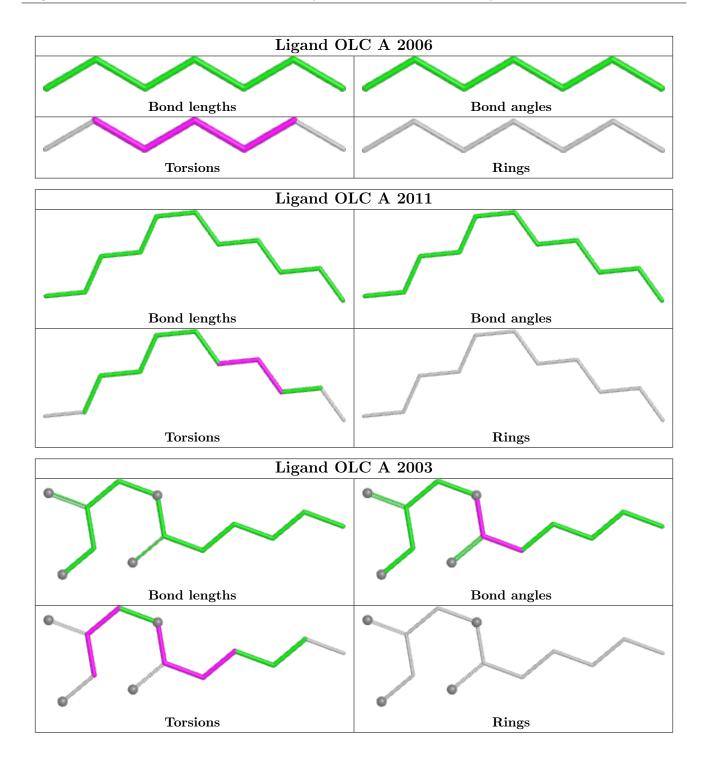
Mol	Chain	$\mathbf{Res}$	Type	Clashes	Symm-Clashes
4	А	2005	OLC	2	0



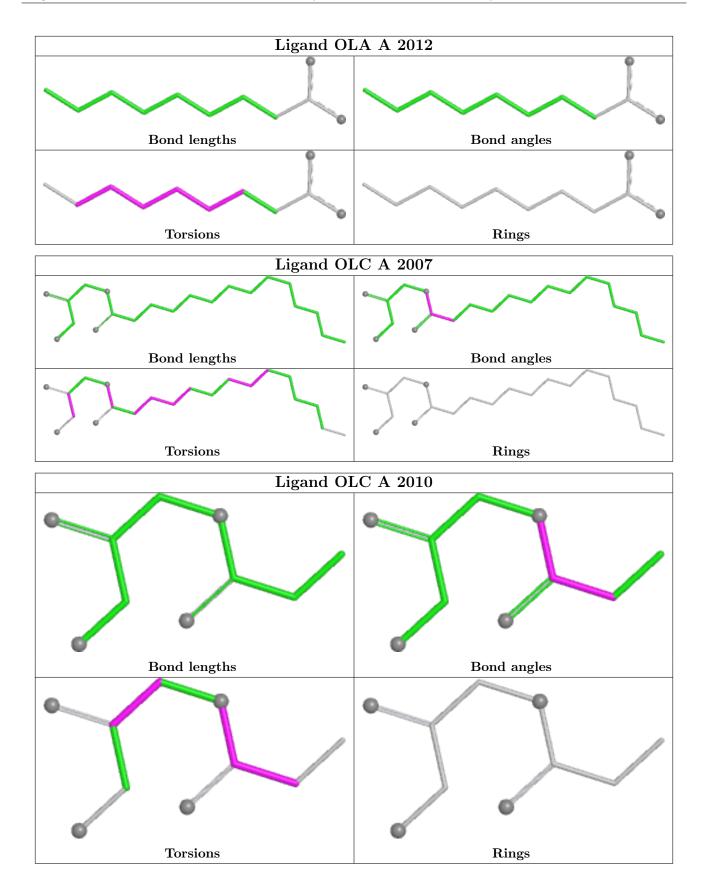
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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



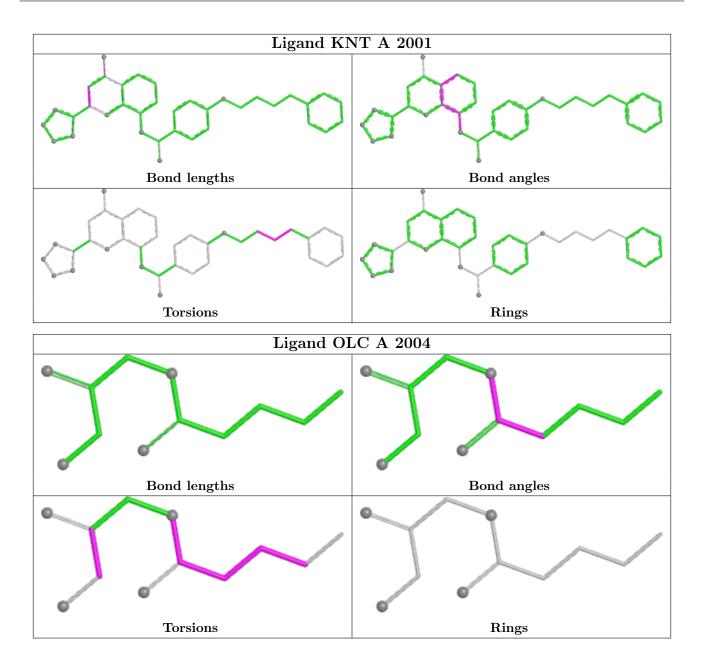












### 5.7 Other polymers (i)

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 $>$	#RSRZ>2		$\mathbf{OWAB}(\mathbf{\AA}^2)$	Q < 0.9
1	А	395/423~(93%)	0.46	21 (5%) 26 2	25	33, 64, 93, 110	0

All (21) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	А	53	HIS	6.7
1	А	263	GLU	5.2
1	А	52	TYR	4.6
1	А	12	ALA	3.9
1	А	11	SER	3.1
1	А	261	HIS	2.8
1	А	1087	ALA	2.8
1	А	258	HIS	2.8
1	А	13	THR	2.7
1	А	15	HIS	2.6
1	А	14	CYS	2.6
1	А	43	PHE	2.5
1	А	179	ASP	2.5
1	А	16	ASP	2.3
1	А	1021	ASP	2.2
1	А	300	GLY	2.2
1	А	1101	TYR	2.2
1	А	267	CYS	2.2
1	А	178	GLN	2.0
1	А	103	LEU	2.0
1	А	54	LYS	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.

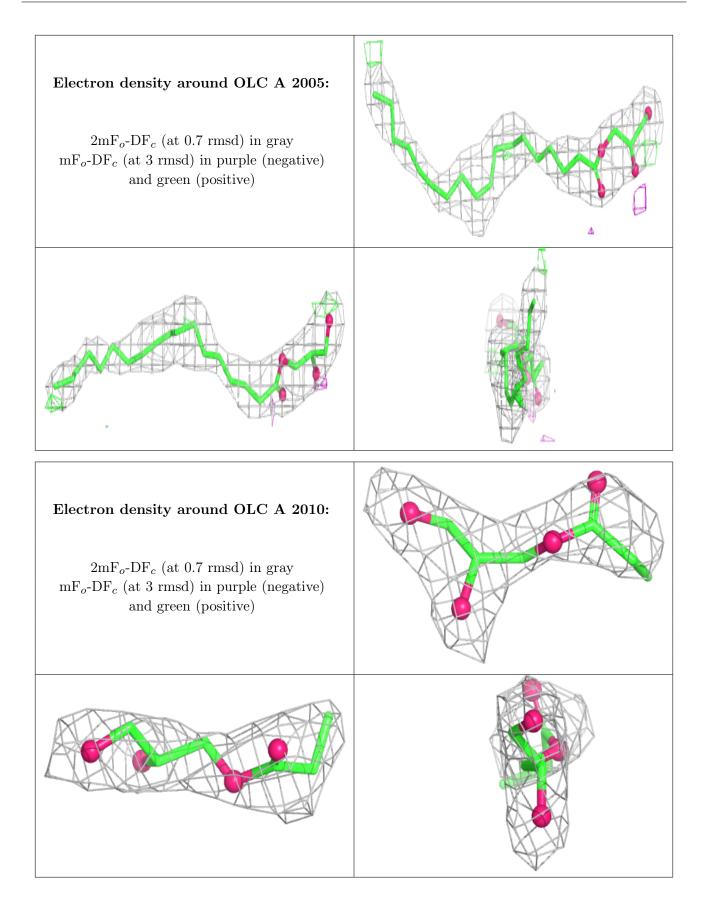
#### 6.4 Ligands (i)

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.

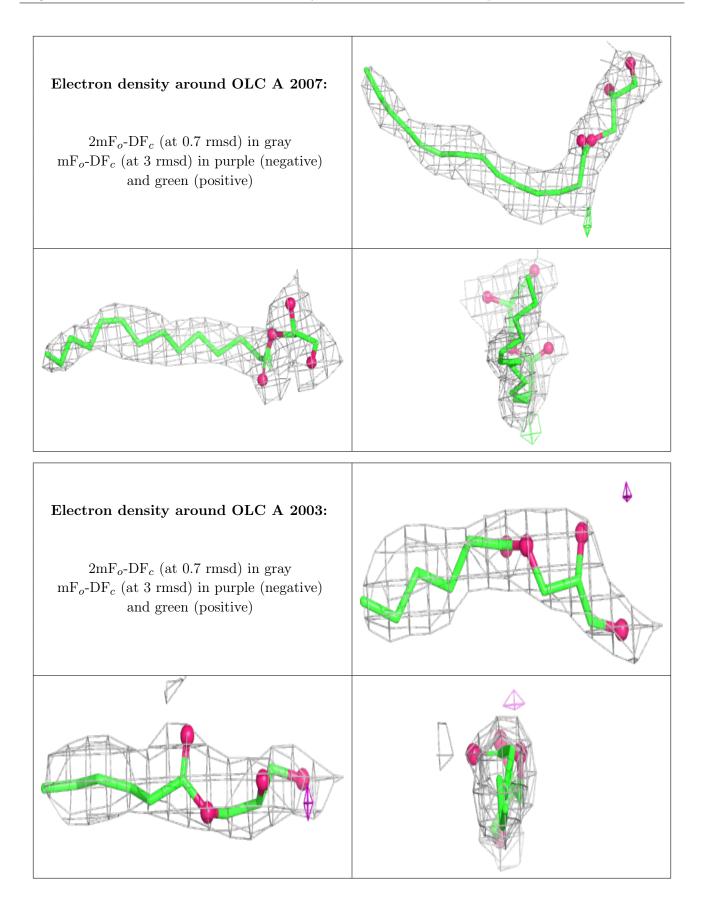
Mol	Type	Chain	Res	Atoms	RSCC	RSR	$B$ -factors( $Å^2$ )	Q<0.9
4	OLC	А	2005	25/25	0.78	0.29	52,54,58,58	0
4	OLC	А	2010	10/25	0.78	0.46	70,73,76,76	0
4	OLC	А	2009	6/25	0.79	0.25	34,36,37,37	0
4	OLC	А	2007	21/25	0.79	0.26	64,66,71,71	0
4	OLC	А	2003	13/25	0.82	0.39	74,76,78,78	0
5	OLA	А	2012	11/20	0.85	0.24	57,59,62,62	0
4	OLC	А	2011	11/25	0.86	0.28	64,65,66,66	0
4	OLC	А	2004	12/25	0.88	0.29	71,72,72,73	0
4	OLC	А	2008	17/25	0.88	0.35	71,72,74,74	0
4	OLC	А	2006	7/25	0.90	0.27	45,46,46,46	0
2	KNT	А	2001	36/36	0.91	0.20	47,48,58,58	0
3	NA	А	2002	1/1	0.95	0.13	52,52,52,52	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.

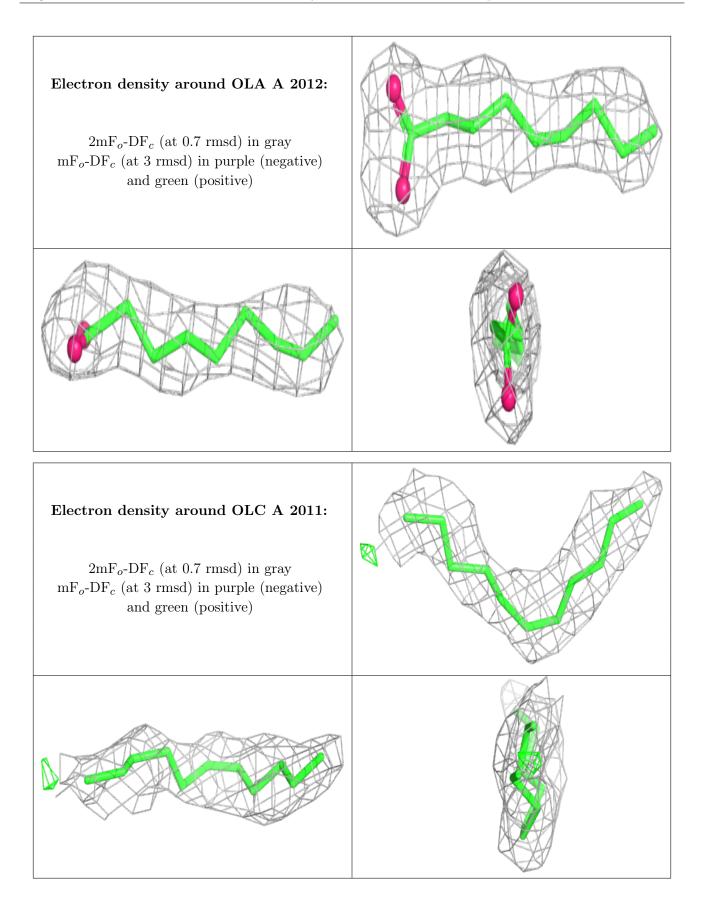




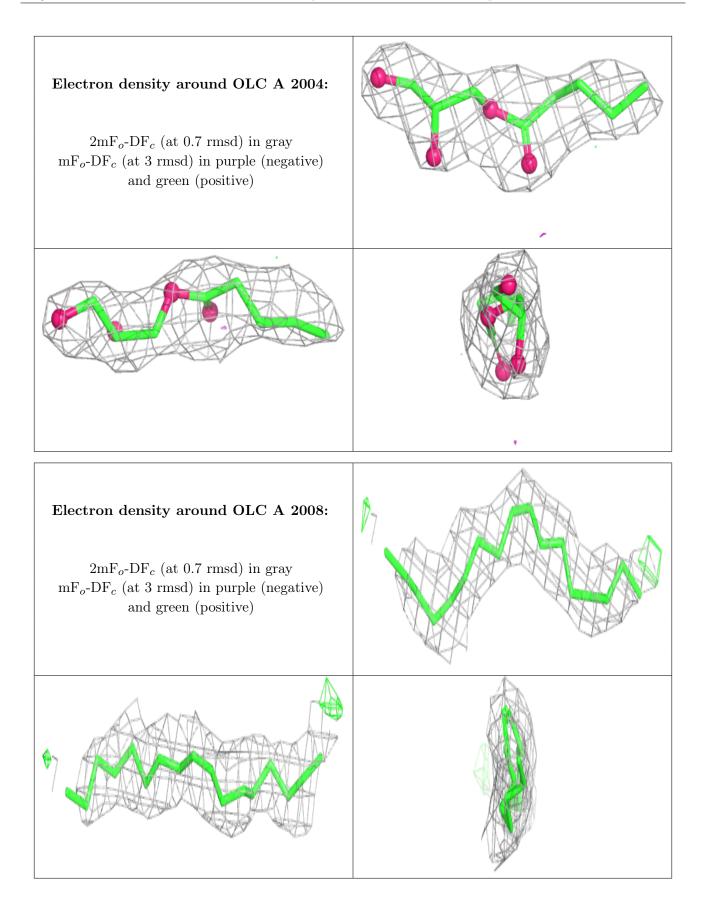




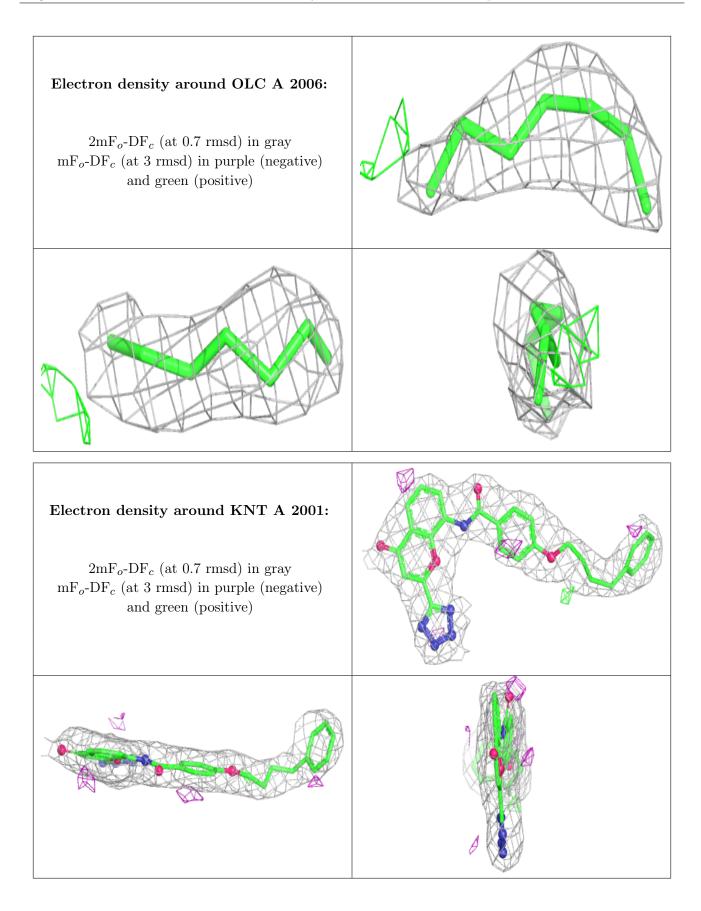














## 6.5 Other polymers (i)

There are no such residues in this entry.

