

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

#### Oct 15, 2023 – 02:04 PM EDT

PDB ID : 6X7Q

Title : Chloramphenicol acetyltransferase type III in complex with chloramphenicol

and acetyl-oxa(dethia)-CoA

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Deposited on : 2020-05-30

Resolution : 1.68 Å(reported)

This is a wwPDB X-ray Structure Validation Summary 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 : 1.8.5 (274361), 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)

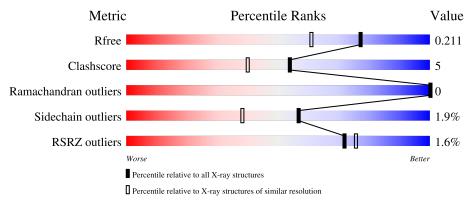
Validation Pipeline (wwPDB-VP) : 2.36

# 1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure: X-RAY DIFFRACTION

The reported resolution of this entry is 1.68 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 $(\# \mathrm{Entries})$	${f Similar \ resolution} \ (\#{f Entries}, \ {f resolution \ range(\AA)})$		
$R_{free}$	130704	6780 (1.70-1.66)		
Clashscore	141614	7310 (1.70-1.66)		
Ramachandran outliers	138981	7173 (1.70-1.66)		
Sidechain outliers	138945	7172 (1.70-1.66)		
RSRZ outliers	127900	6661 (1.70-1.66)		

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	215	88%	10%					
1	В	215	90%	8%					
1	С	215	87%	11%					



# 2 Entry composition (i)

There are 7 unique types of molecules in this entry. The entry contains 6530 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 Chloramphenicol acetyltransferase 3.

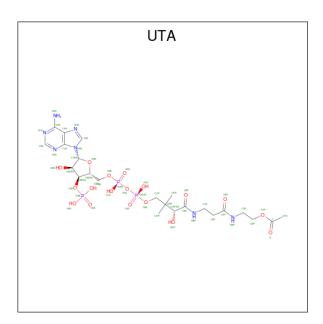
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	Λ	212	Total	С	N	О	S	0	7	0
1	A	212	1791	1158	293	329	11	0	1	
1	В	213	Total	С	N	О	S	0	10	0
1	Б	213	1827	1182	298	337	10	0		
1	С	213	Total	С	N	О	S	0	16	0
1		213	1867	1201	304	350	12	0	10	U

There are 9 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-1	SER	-	expression tag	UNP P00484
A	0	GLY	-	expression tag	UNP P00484
A	1	GLY	-	expression tag	UNP P00484
В	-1	SER	-	expression tag	UNP P00484
В	0	GLY	-	expression tag	UNP P00484
В	1	GLY	-	expression tag	UNP P00484
С	-1	SER	-	expression tag	UNP P00484
С	0	GLY	-	expression tag	UNP P00484
С	1	GLY	-	expression tag	UNP P00484

• Molecule 2 is acetyl-oxa(dethia)-CoA (three-letter code: UTA) (formula:  $C_{23}H_{38}N_7O_{18}P_3$ ) (labeled as "Ligand of Interest" by depositor).





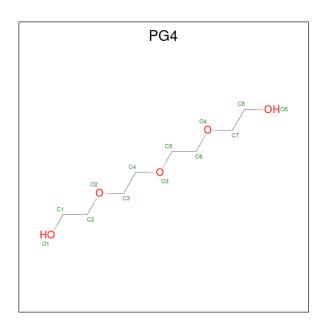
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf		
9	Λ	1	Total	С	N	О	Р	0	0	
	Λ	1	51	23	7	18	3	0		
2	D	1	Total	С	N	О	Р	0	0	
	Б	D 1	51	23	7	18	3			
2	С	1	Total	С	N	О	Р	0	1	
2			52	23	8	18	3	U	1	

• Molecule 3 is ZINC ION (three-letter code: ZN) (formula: Zn).

$\mathbf{M}$	ol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	}	A	1	Total Zn 1 1	0	0
3	}	С	1	Total Zn 1 1	0	0

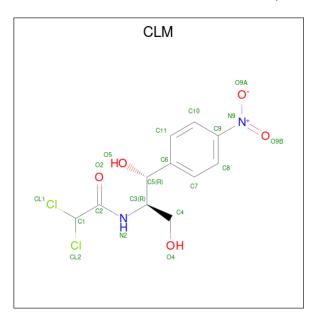
• Molecule 4 is TETRAETHYLENE GLYCOL (three-letter code: PG4) (formula:  $C_8H_{18}O_5$ ).





Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	A	1	Total 13	C 8	O 5	0	0

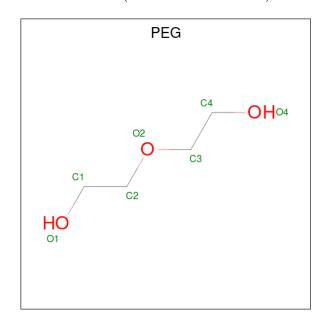
 $\bullet \ \, \text{Molecule 5 is CHLORAMPHENICOL (three-letter code: CLM) (formula: $C_{11}H_{12}Cl_2N_2O_5)$.}$ 



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
5	Δ	1	Total	С	Cl	N	О	0	0
	11	1	20	11	2	2	5	O	U
5	D	1	Total	С	Cl	Ν	Ο	0	0
9	Ъ	1	20	11	2	2	5	U	0
5	С	1	Total	С	Cl	N	О	0	0
9		1	20	11	2	2	5	U	U



• Molecule 6 is DI(HYDROXYETHYL)ETHER (three-letter code: PEG) (formula:  $C_4H_{10}O_3$ ).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
6	В	1	Total 7	C 4	O 3	0	0

• Molecule 7 is water.

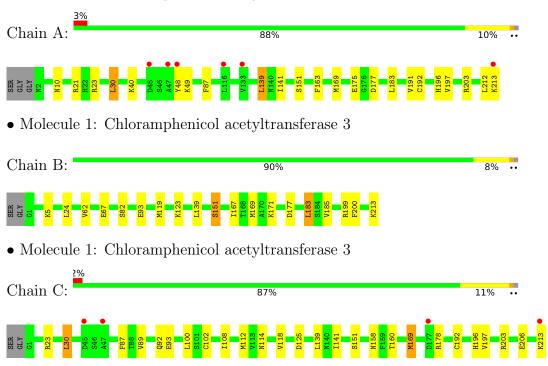
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	A	260	Total O 261 261	0	1
7	В	294	Total O 295 295	0	1
7	С	252	Total O 253 253	0	1



# 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: Chloramphenicol acetyltransferase 3





# 4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 42 21 2	Depositor
Cell constants	106.92Å 106.92Å 126.60Å	Donogitor
a, b, c, $\alpha$ , $\beta$ , $\gamma$	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	34.33 - 1.68	Depositor
Resolution (A)	34.31 - 1.68	EDS
% Data completeness	99.8 (34.33-1.68)	Depositor
(in resolution range)	99.9 (34.31-1.68)	EDS
$R_{merge}$	0.15	Depositor
$R_{sym}$	0.09	Depositor
$< I/\sigma(I) > 1$	2.97 (at 1.68Å)	Xtriage
Refinement program	REFMAC 5.8.0352	Depositor
D D.	0.159 , 0.201	Depositor
$R, R_{free}$	0.172 , 0.211	DCC
$R_{free}$ test set	4005 reflections $(4.76%)$	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	18.3	Xtriage
Anisotropy	0.062	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$ , $B_{sol}(Å^2)$	0.32 , 41.4	EDS
L-test for twinning <sup>2</sup>	$ < L >=0.50, < L^2>=0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.97	EDS
Total number of atoms	6530	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	22.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 5.05% of the height of the origin peak. No significant pseudotranslation is detected.

<sup>&</sup>lt;sup>2</sup>Theoretical 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.



<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: ZN, CLM, UTA, PEG, PG4

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		
IVIOI		RMSZ	# Z  > 5	RMSZ	# Z  > 5	
1	A	0.47	0/1852	0.81	2/2511 (0.1%)	
1	В	0.49	0/1884	0.76	0/2557	
1	С	0.50	0/1927	0.80	0/2613	
All	All	0.49	0/5663	0.79	2/7681 (0.0%)	

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1
1	С	0	2
All	All	0	3

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	$Observed(^o)$	$\operatorname{Ideal}({}^o)$
1	A	21	ARG	NE-CZ-NH2	-7.29	116.65	120.30
1	A	203	ARG	NE-CZ-NH2	-5.08	117.76	120.30

There are no chirality outliers.

All (3) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	23	ARG	Sidechain
1	С	178	ARG	Sidechain
1	С	23	ARG	Sidechain



#### 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	1791	0	1746	19	0
1	В	1827	0	1784	14	0
1	С	1867	0	1808	23	1
2	A	51	0	0	2	0
2	В	51	0	0	1	0
2	С	52	0	0	3	0
3	A	1	0	0	0	0
3	С	1	0	0	0	0
4	A	13	0	18	1	0
5	A	20	0	11	0	0
5	В	20	0	11	0	0
5	С	20	0	11	0	0
6	В	7	0	10	0	0
7	A	261	0	0	10	2
7	В	295	0	0	1	1
7	С	253	0	0	12	1
All	All	6530	0	5399	59	3

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.

The worst 5 of 59 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	$\begin{array}{c} {\rm Interatomic} \\ {\rm distance} \ ({\rm \AA}) \end{array}$	Clash overlap (Å)
2:C:302[B]:UTA:C2P	7:C:404[B]:HOH:O	2.00	1.09
2:A:301:UTA:C5B	7:A:480:HOH:O	2.21	0.89
1:B:167:ILE:HD12	1:B:185[B]:VAL:HG12	1.55	0.87
1:C:92[A]:GLN:HG2	7:C:445:HOH:O	1.76	0.83
1:A:40:LYS:NZ	7:A:401:HOH:O	2.10	0.82

All (3) 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:581:HOH:O	7:B:420:HOH:O[5_545]	2.17	0.03
1:C:118[B]:VAL:CG1	7:A:428:HOH:O[5_545]	2.18	0.02
7:C:507:HOH:O	7:C:507:HOH:O[2_655]	2.19	0.01

#### 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	Perce	ntiles
1	A	217/215 (101%)	217 (100%)	0	0	100	100
1	В	221/215 (103%)	221 (100%)	0	0	100	100
1	С	227/215 (106%)	227 (100%)	0	0	100	100
All	All	665/645 (103%)	665 (100%)	0	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	204/198 (103%)	201 (98%)	3 (2%)	65	48	
1	В	207/198 (104%)	201 (97%)	6 (3%)	42	21	
1	С	213/198 (108%)	208 (98%)	5 (2%)	50	30	
All	All	624/594 (105%)	610 (98%)	14 (2%)	57	32	

5 of 14 residues with a non-rotameric sidechain are listed below:



Mol	Chain	Res	Type
1	В	183	LEU
1	В	213	LYS
1	С	213	LYS
1	С	169[A]	MET
1	С	169[B]	MET

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 7 such sidechains are listed below:

Mol	Chain	Res	Type
1	В	86	GLN
1	В	140	ASN
1	С	158	ASN
1	В	158	ASN
1	A	209	ASN

#### 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 11 ligands modelled in this entry, 2 are monoatomic - leaving 9 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	Tuno	Chain	Res	Link	Во	ond leng	$ ag{ths}$	В	ond ang	gles
MIOI	Type	Chain	nes	LIIIK	Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z >2
5	CLM	С	301	-	19,20,20	1.19	1 (5%)	23,27,27	1.16	2 (8%)
2	UTA	В	302	-	45,53,53	1.18	6 (13%)	57,79,79	1.38	9 (15%)
5	CLM	A	304	-	19,20,20	0.89	1 (5%)	23,27,27	1.25	3 (13%)
4	PG4	A	303	-	12,12,12	0.32	0	11,11,11	0.34	0
6	PEG	В	303	-	6,6,6	0.24	0	5,5,5	0.19	0
2	UTA	С	302[B]	-	42,50,53	1.23	4 (9%)	53,75,79	1.91	16 (30%)
5	CLM	В	301	-	19,20,20	1.06	1 (5%)	23,27,27	1.15	2 (8%)
2	UTA	С	302[A]	-	42,50,53	1.15	3 (7%)	53,75,79	1.86	14 (26%)
2	UTA	A	301	-	45,53,53	1.37	6 (13%)	57,79,79	1.36	8 (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
5	CLM	С	301	-	-	0/20/22/22	0/1/1/1
2	UTA	В	302	-	-	11/47/67/67	0/3/3/3
5	CLM	A	304	-	-	0/20/22/22	0/1/1/1
4	PG4	A	303	-	-	3/10/10/10	-
6	PEG	В	303	-	-	0/4/4/4	-
2	UTA	С	302[B]	-	-	5/44/64/67	0/3/3/3
5	CLM	В	301	-	-	0/20/22/22	0/1/1/1
2	UTA	С	302[A]	-	-	4/44/64/67	0/3/3/3
2	UTA	A	301	-	-	6/47/67/67	0/3/3/3

The worst 5 of 22 bond length outliers are listed below:

l I	Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	$\operatorname{Observed}(\operatorname{\AA})$	Ideal(A)
	5	С	301	CLM	C1-C2	-4.54	1.46	1.53
	2	A	301	UTA	P3B-O3B	4.24	1.67	1.59
	2	С	302[A]	UTA	OAP-CAP	3.77	1.49	1.42
	2	С	302[B]	UTA	OAP-CAP	3.77	1.49	1.42
	2	A	301	UTA	OAP-CAP	3.66	1.49	1.42

The worst 5 of 54 bond angle outliers are listed below:

Mol	Chain	$\operatorname{Res}$	Type	Atoms	${f Z}$	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
2	С	302[A]	UTA	N6A-C6A-N1A	5.05	129.06	118.57

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Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	$\mathbf{Observed}(^o)$	$\mathbf{Ideal}(^o)$
2	С	302[B]	UTA	N6A-C6A-N1A	5.05	129.06	118.57
2	С	302[A]	UTA	N3A-C2A-N1A	-4.77	121.22	128.68
2	С	302[B]	UTA	N3A-C2A-N1A	-4.77	121.22	128.68
2	С	302[A]	UTA	C2A-N1A-C6A	4.50	126.45	118.75

There are no chirality outliers.

5 of 29 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	301	UTA	P2A-O3A-P1A-O5B
2	A	301	UTA	P1A-O3A-P2A-O6A
2	В	302	UTA	P2A-O3A-P1A-O5B
2	В	302	UTA	P1A-O3A-P2A-O6A
4	A	303	PG4	O4-C7-C8-O5

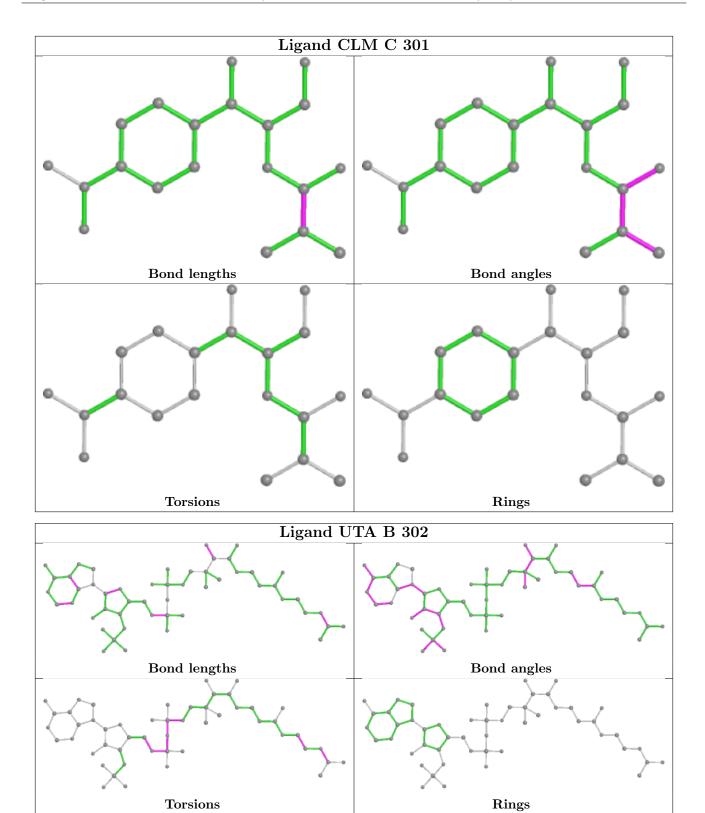
There are no ring outliers.

5 monomers are involved in 7 short contacts:

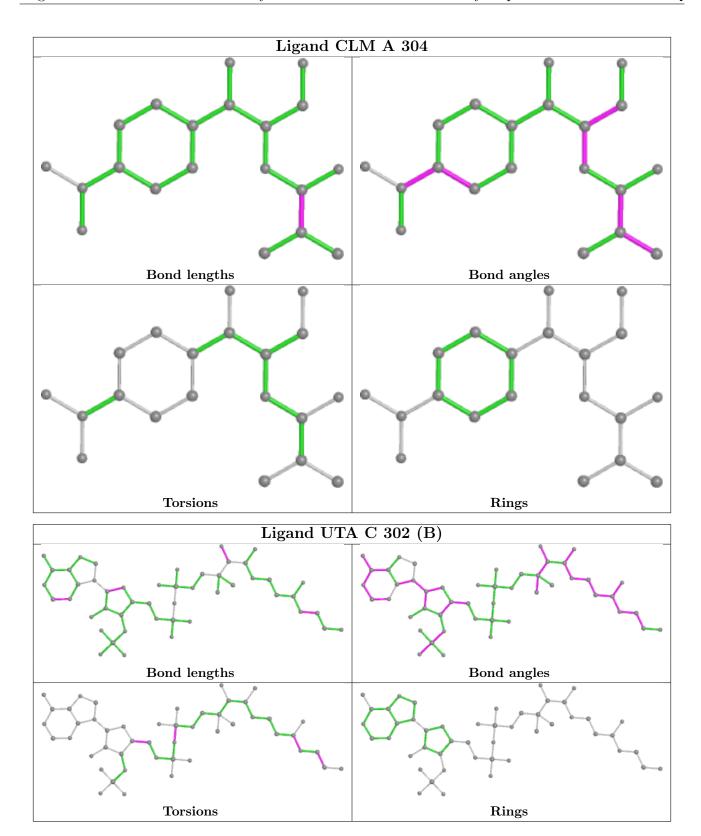
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	В	302	UTA	1	0
4	A	303	PG4	1	0
2	С	302[B]	UTA	1	0
2	С	302[A]	UTA	2	0
2	A	301	UTA	2	0

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.

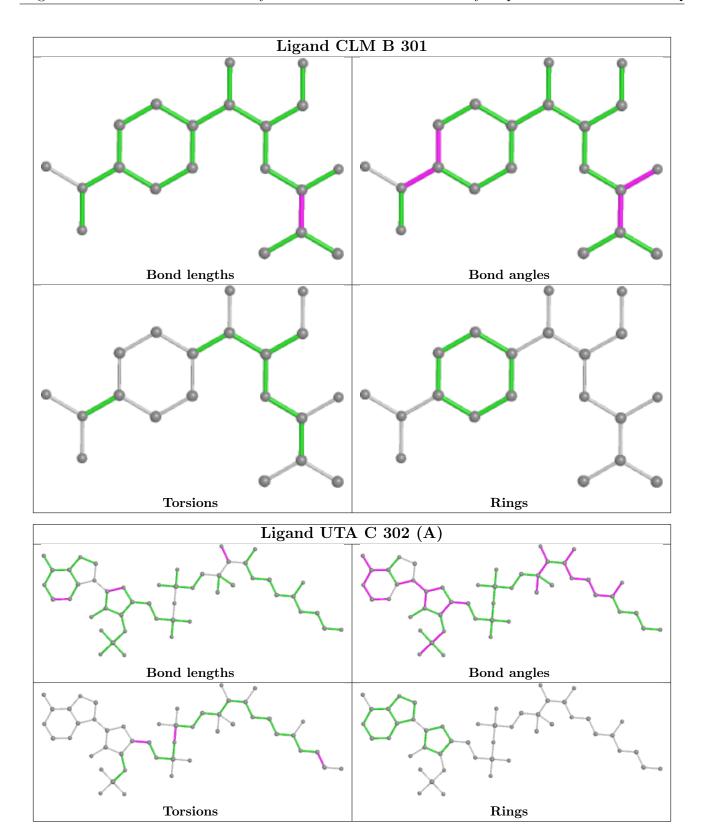




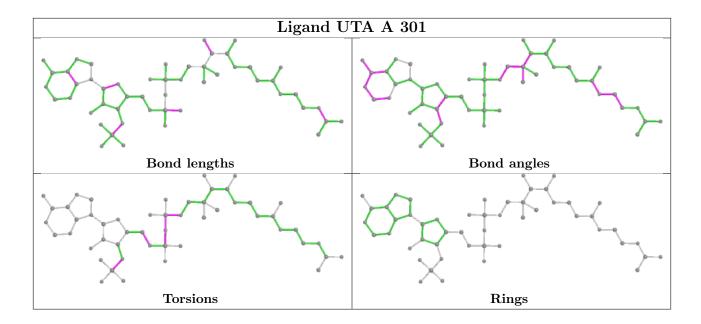












#### 5.7 Other polymers (i)

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>	$\#\mathrm{RSRZ}{>}2$	$OWAB(\AA^2)$	Q < 0.9
1	A	212/215 (98%)	-0.19	6 (2%) 53 55	11, 18, 40, 72	0
1	В	213/215 (99%)	-0.44	0 100 100	12, 18, 33, 41	0
1	С	213/215 (99%)	-0.22	4 (1%) 66 70	12, 18, 38, 81	0
All	All	638/645 (98%)	-0.28	10 (1%) 72 75	11, 18, 37, 81	0

The worst 5 of 10 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	213	LYS	5.8
1	С	213	LYS	5.7
1	A	47	ALA	3.1
1	A	45	ASP	2.7
1	С	45	ASP	2.5

#### 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.

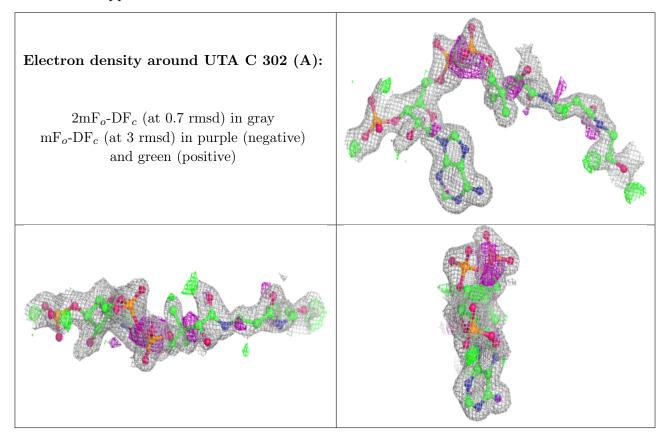
#### 6.4 Ligands (i)

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.

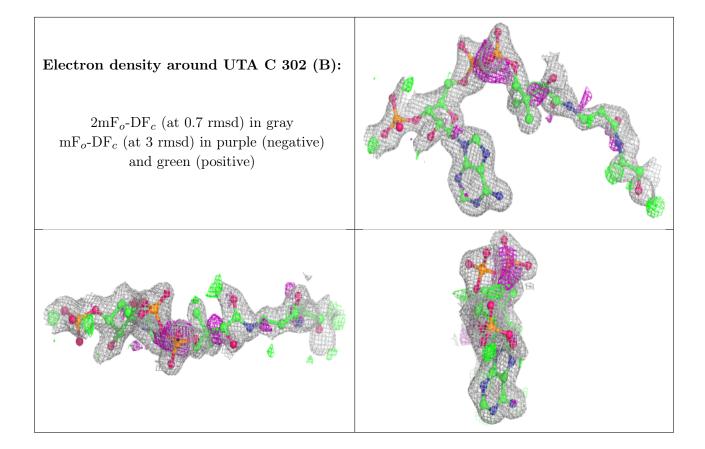


Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q<0.9
2	UTA	С	302[A]	48/51	0.81	0.20	20,36,77,104	4
2	UTA	С	302[B]	48/51	0.81	0.20	20,39,77,104	4
4	PG4	A	303	13/13	0.87	0.12	35,41,49,54	0
5	CLM	A	304	20/20	0.88	0.11	22,26,41,59	0
5	CLM	В	301	20/20	0.88	0.11	24,27,54,72	0
5	CLM	С	301	20/20	0.88	0.10	23,28,45,59	0
6	PEG	В	303	7/7	0.90	0.09	39,42,45,45	0
2	UTA	В	302	51/51	0.92	0.11	18,30,44,56	0
2	UTA	A	301	51/51	0.92	0.10	16,23,37,44	0
3	ZN	С	303	1/1	0.98	0.03	17,17,17,17	1
3	ZN	A	302	1/1	1.00	0.01	14,14,14,14	0

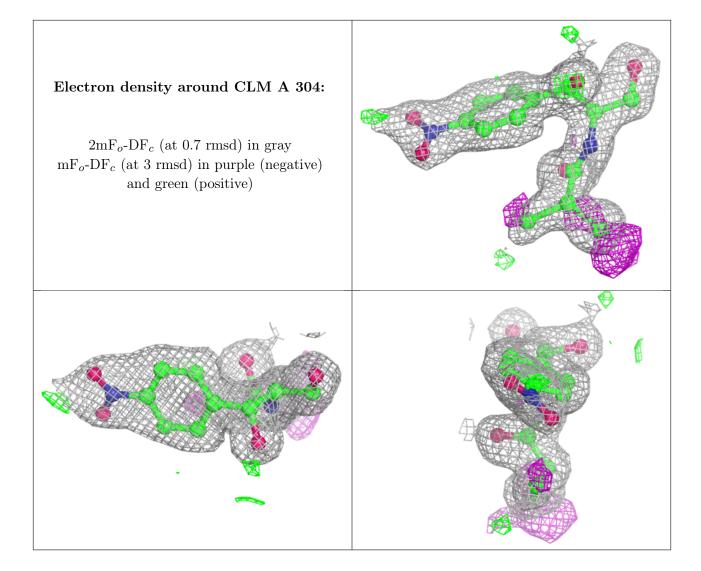
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.













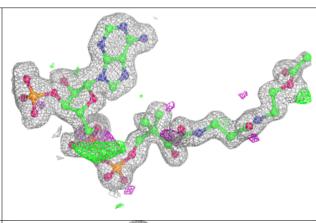
# Electron density around CLM B 301: 2mF<sub>o</sub>-DF<sub>c</sub> (at 0.7 rmsd) in gray mF<sub>o</sub>-DF<sub>c</sub> (at 3 rmsd) in purple (negative) and green (positive)

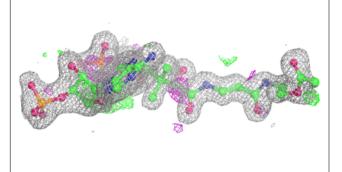


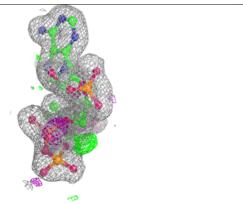
# 

## Electron density around UTA B 302:

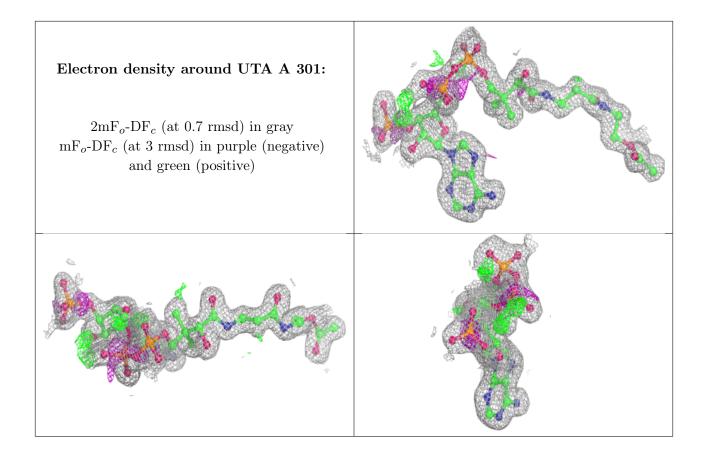
 $2 {\rm mF}_o\text{-}{\rm DF}_c$  (at 0.7 rmsd) in gray  ${\rm mF}_o\text{-}{\rm DF}_c$  (at 3 rmsd) in purple (negative) and green (positive)











# 6.5 Other polymers (i)

There are no such residues in this entry.

