

wwPDB X-ray Structure Validation Summary Report (i)

Nov 4, 2023 – 07:14 AM EDT

PDB ID	:	5QB4
Title	:	OXA-48 IN COMPLEX WITH SUBSTRATE IMIPENEM
Authors	:	Lund, B.A.; Leiros, H.K.S.
Deposited on		
Resolution	:	1.95 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:

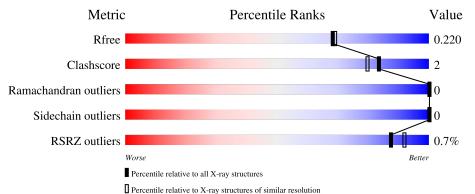
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.36
buster-report	:	1.1.7(2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (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 1.95 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	2580 (1.96-1.96)
Clashscore	141614	2705 (1.96-1.96)
Ramachandran outliers	138981	2678 (1.96-1.96)
Sidechain outliers	138945	2678 (1.96-1.96)
RSRZ outliers	127900	2539 (1.96-1.96)

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	А	243	94%	5%
1	В	243	96%	•
1	С	243	% 93%	6%
1	D	243	% 94%	6%

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
3	CL	D	302	-	-	Х	-



 $\mathbf{2}$

Entry composition (i)

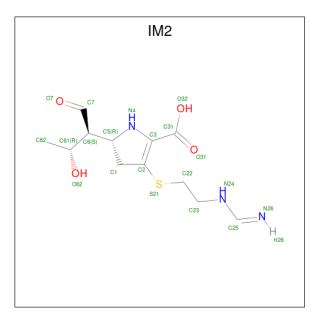
There are 5 unique types of molecules in this entry. The entry contains 16620 atoms, of which 7786 are hydrogens and 0 are deuteriums.

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.

Mol	Chain	Residues		Atoms					ZeroOcc	AltConf	Trace
1	1 A	242	Total	С	Η	Ν	0	\mathbf{S}	0	1	0
1	Л	242	3914	1265	1925	350	367	7			0
1	1 B	242	Total	\mathbf{C}	Η	Ν	Ο	\mathbf{S}	0	2	0
1	D	242	3931	1271	1932	353	368	7			
1	С	242	Total	\mathbf{C}	Η	Ν	Ο	\mathbf{S}	0	1	0
	U	242	3919	1267	1929	350	366	7			0
1	D	242	Total	С	Η	Ν	0	S	0	1	0
	D	242	3916	1267	1926	350	366	7	0		U

• Molecule 1 is a protein called Beta-lactamase.

• Molecule 2 is (5R)-5-[(1S,2R)-1-formyl-2-hydroxypropyl]-3-[(2-{[(E)-iminomethyl]amino}e thyl)sulfanyl]-4,5-dihydro-1H-pyrrole-2-carbox ylic acid (three-letter code: IM2) (formula: $C_{12}H_{19}N_3O_4S$).



Mol	Chain	Residues		Α	tom	s		ZeroOcc	AltConf
2	А	1	Total 37	C 12				0	0

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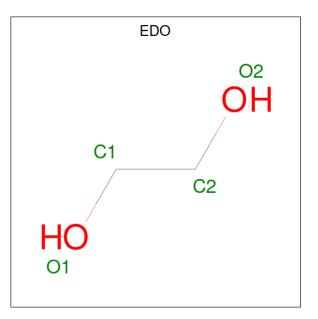
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Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	
2	В	1	Total						0	0	
			37		17	-					
2	C	C 1	Total						0	0	
	U		37	12	17	3	4	1		0	
0	П	1	Total	С	Η	Ν	Ο	S	0	0	
2	D		37	12	17	3	4	1	0	0	

• Molecule 3 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	C	1	Total Cl 1 1	0	0
3	D	1	Total Cl 1 1	0	0

• Molecule 4 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: $C_2H_6O_2$).



Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	С	1	Total C H 10 2 6	O 2	0	0

• Molecule 5 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	А	203	Total O 203 203	0	0

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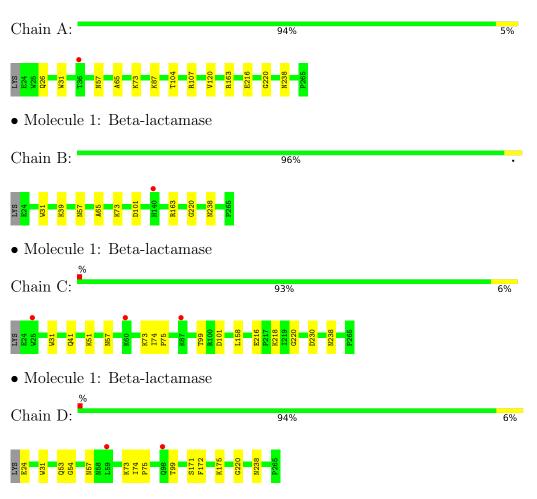
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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	В	209	Total O 209 209	0	0
5	С	181	Total O 181 181	0	0
5	D	187	Total O 187 187	0	0



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: Beta-lactamase



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants	88.79Å 107.50Å 124.33Å	Depositor
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	43.13 - 1.95	Depositor
Resolution (A)	72.26 - 1.92	EDS
% Data completeness	95.5 (43.13-1.95)	Depositor
(in resolution range)	84.9 (72.26-1.92)	EDS
R _{merge}	0.10	Depositor
R _{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$1.06 (at 1.92 \text{\AA})$	Xtriage
Refinement program	PHENIX 1.11.1_2575	Depositor
D D.	0.185 , 0.220	Depositor
R, R_{free}	0.185 , 0.220	DCC
R_{free} test set	4146 reflections (4.91%)	wwPDB-VP
Wilson B-factor $(Å^2)$	23.8	Xtriage
Anisotropy	0.599	Xtriage
Bulk solvent $k_{sol}(e/Å^3), B_{sol}(Å^2)$	0.39 , 46.6	EDS
L-test for twinning ²	$ < L >=0.52, < L^2>=0.35$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	16620	wwPDB-VP
Average B, all atoms $(Å^2)$	37.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The analyses of the Patterson function reveals a significant off-origin peak that is 48.93 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 8.0229e-05. The detected translational NCS is most likely also responsible for the elevated intensity ratio.

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.



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: KCX, CL, EDO, IM2 $\,$

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		
	Unam	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	А	0.40	0/2025	0.55	0/2738	
1	В	0.41	0/2036	0.56	0/2753	
1	С	0.38	0/2026	0.54	0/2740	
1	D	0.38	0/2026	0.55	0/2740	
All	All	0.39	0/8113	0.55	0/10971	

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	1989	1925	1935	9	0
1	В	1999	1932	1941	5	0
1	С	1990	1929	1939	10	0
1	D	1990	1926	1939	11	0
2	А	20	17	16	1	0
2	В	20	17	16	0	0
2	С	20	17	16	2	0
2	D	20	17	16	1	0
3	C	1	0	0	1	0

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	Chain	Non-H H(model)		H(added) Clashes		Symm-Clashes
3	D	1	0	0	1	1
4	С	4	6	6	0	0
5	А	203	0	0	3	3
5	В	209	0	0	1	4
5	С	181	0	0	7	3
5	D	187	0	0	5	3
All	All	8834	7786	7824	38	7

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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.

The worst 5 of 38 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:D:24:GLU:O	5:D:401:HOH:O	1.61	1.19	
3:C:302:CL:CL	5:C:553:HOH:O	2.19	0.97	
3:D:302:CL:CL	5:D:554:HOH:O	2.24	0.91	
1:B:39:LYS:NZ	5:B:401:HOH:O	2.08	0.86	
1:A:26:GLN:OE1	5:A:401:HOH:O	1.96	0.83	

The worst 5 of 7 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	Interatomic distance (Å)	Clash overlap (Å)
5:B:510:HOH:O	5:D:558:HOH:O[2_794]	2.05	0.15
5:B:565:HOH:O	5:D:419:HOH:O[2_794]	2.07	0.13
5:A:566:HOH:O	5:C:553:HOH:O[3_755]	2.08	0.12
5:A:582:HOH:O	5:C:558:HOH:O[3_755]	2.08	0.12
5:A:596:HOH:O	5:C:528:HOH:O[3_755]	2.10	0.10

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	А	240/243~(99%)	236~(98%)	4 (2%)	0	100	100
1	В	241/243~(99%)	237~(98%)	4 (2%)	0	100	100
1	С	240/243~(99%)	235~(98%)	5(2%)	0	100	100
1	D	240/243~(99%)	235~(98%)	5(2%)	0	100	100
All	All	961/972~(99%)	943~(98%)	18 (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	211/211~(100%)	211 (100%)	0	100 100		
1	В	212/211~(100%)	212 (100%)	0	100 100		
1	С	211/211 (100%)	211 (100%)	0	100 100		
1	D	211/211 (100%)	211 (100%)	0	100 100		
All	All	845/844~(100%)	845 (100%)	0	100 100		

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

Sometimes side chains can be flipped to improve hydrogen bonding and reduce clashes. There are no such side chains 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)

4 non-standard protein/DNA/RNA residues 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).

Mal	Mol Type Chain		Res Link	Bond lengths			Bond angles			
	туре	Chain	nes		Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z >2
1	KCX	D	73	1	9,11,12	0.93	0	$5,\!12,\!14$	1.87	1 (20%)
1	KCX	С	73	1	9,11,12	0.74	0	5,12,14	2.09	1 (20%)
1	KCX	А	73	1	9,11,12	0.99	1 (11%)	5,12,14	1.74	1 (20%)
1	KCX	В	73	1	9,11,12	0.81	0	$5,\!12,\!14$	1.72	1 (20%)

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
1	KCX	D	73	1	-	0/9/10/12	-
1	KCX	С	73	1	-	0/9/10/12	-
1	KCX	А	73	1	-	0/9/10/12	-
1	KCX	В	73	1	-	0/9/10/12	-

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	А	73	KCX	OQ1-CX	2.22	1.25	1.21

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
1	С	73	KCX	OQ1-CX-NZ	-4.57	117.88	124.96
1	D	73	KCX	OQ1-CX-NZ	-4.05	118.68	124.96
1	В	73	KCX	OQ1-CX-NZ	-3.82	119.03	124.96
1	А	73	KCX	OQ1-CX-NZ	-3.81	119.05	124.96

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.



5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

Of 7 ligands modelled in this entry, 2 are monoatomic - leaving 5 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	ths	Bond angles		
10101	Type	Chain	Juan Kes	LIIIK	Counts	RMSZ	# Z >2	Counts	RMSZ	# Z >2
2	IM2	С	301	1	15,20,20	0.44	0	11,26,26	1.19	1 (9%)
2	IM2	А	301	1	15,20,20	0.45	0	11,26,26	1.40	1 (9%)
4	EDO	С	303	-	3,3,3	0.41	0	2,2,2	0.44	0
2	IM2	В	301	1	$15,\!20,\!20$	1.21	2 (13%)	11,26,26	1.53	2 (18%)
2	IM2	D	301	1	15,20,20	1.09	2 (13%)	11,26,26	1.90	3 (27%)

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	IM2	С	301	1	-	2/17/32/32	0/1/1/1
2	IM2	А	301	1	-	6/17/32/32	0/1/1/1
4	EDO	С	303	-	-	1/1/1/1	-
2	IM2	В	301	1	-	7/17/32/32	0/1/1/1
2	IM2	D	301	1	-	6/17/32/32	0/1/1/1

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Ζ	Observed(Å)	Ideal(Å)
2	В	301	IM2	O31-C31	3.37	1.31	1.22
2	D	301	IM2	O31-C31	3.29	1.31	1.22
2	В	301	IM2	O32-C31	-2.75	1.22	1.30
2	D	301	IM2	O32-C31	-2.32	1.23	1.30



Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^{o})$	$Ideal(^{o})$
2	В	301	IM2	C5-C1-C2	3.55	106.42	102.58
2	А	301	IM2	C5-C1-C2	3.53	106.40	102.58
2	D	301	IM2	O31-C31-C3	-3.51	113.91	120.13
2	D	301	IM2	C5-C1-C2	3.46	106.33	102.58
2	С	301	IM2	C5-C1-C2	3.15	105.99	102.58

The worst 5 of 7 bond angle outliers are listed below:

There are no chirality outliers.

5 of 22 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	А	301	IM2	C2-C3-C31-O31
2	А	301	IM2	C2-C3-C31-O32
2	В	301	IM2	C7-C6-C61-O62
2	В	301	IM2	C7-C6-C61-C62
2	В	301	IM2	C5-C6-C61-O62

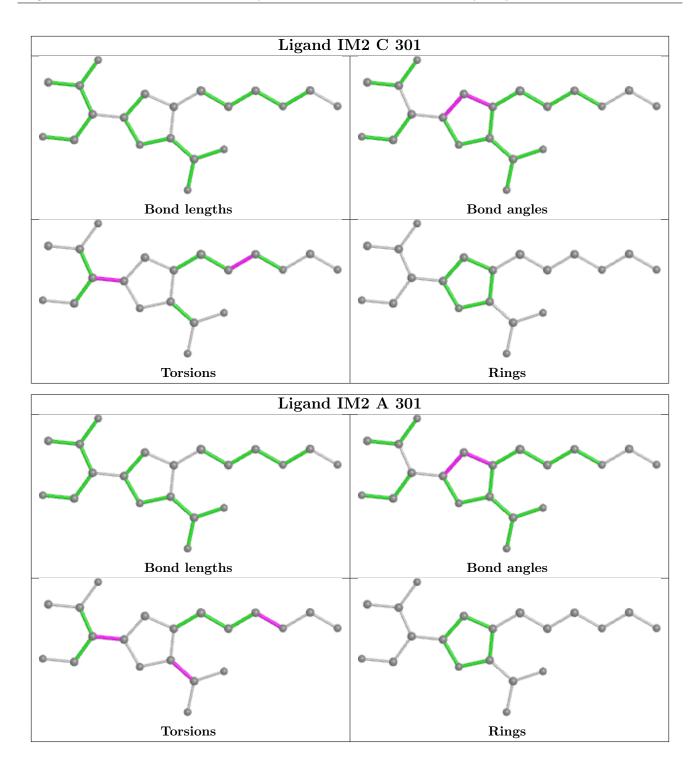
There are no ring outliers.

3 monomers are involved in 4 short contacts:

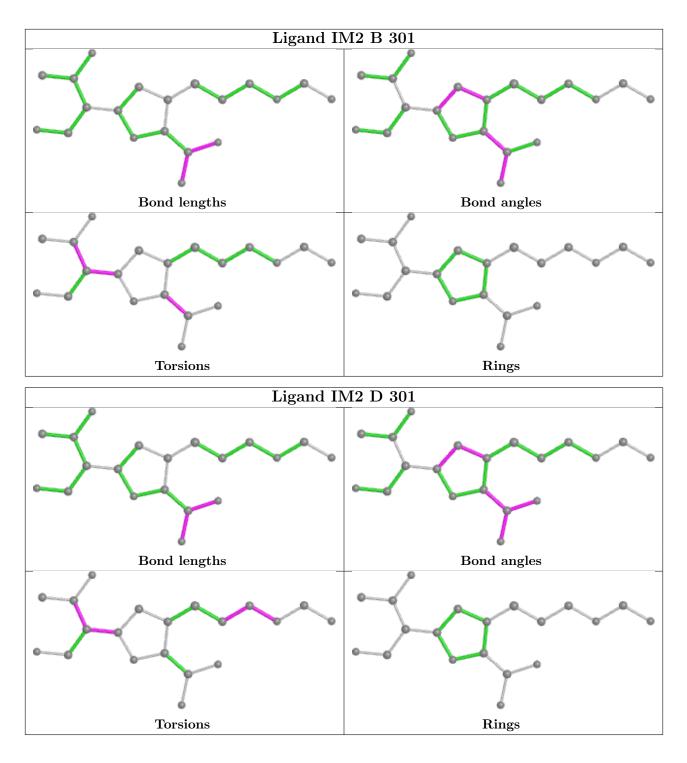
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	С	301	IM2	2	0
2	А	301	IM2	1	0
2	D	301	IM2	1	0

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 sufficient 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 $>$	\mathbf{RZ} > $\#\mathbf{RSRZ}$ >2		$OWAB(Å^2)$	$\mathbf{Q}{<}0.9$	
1	А	241/243~(99%)	0.24	1 (0%)	92	95	21, 30, 53, 82	0
1	В	241/243~(99%)	0.17	1 (0%)	92	95	19, 28, 52, 101	0
1	С	241/243~(99%)	0.23	3 (1%)	79	84	22, 32, 56, 99	0
1	D	241/243~(99%)	0.18	2(0%)	86	90	20, 30, 54, 74	0
All	All	964/972~(99%)	0.20	7 (0%)	87	92	19, 30, 54, 101	0

The worst 5 of 7 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	А	36	THR	2.6
1	С	25	TRP	2.4
1	С	87	LYS	2.2
1	D	98	GLN	2.2
1	В	140[A]	HIS	2.1

6.2 Non-standard residues in protein, DNA, RNA chains (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	$\mathbf{B} ext{-factors}(\mathbf{A}^2)$	Q < 0.9
1	KCX	В	73	12/13	0.93	0.14	18,22,27,27	0
1	KCX	А	73	12/13	0.96	0.11	20,25,29,30	0
1	KCX	С	73	12/13	0.96	0.12	22,27,32,33	0
1	KCX	D	73	12/13	0.96	0.10	21,25,30,30	0



6.3 Carbohydrates (i)

There are no monosaccharides in this entry.

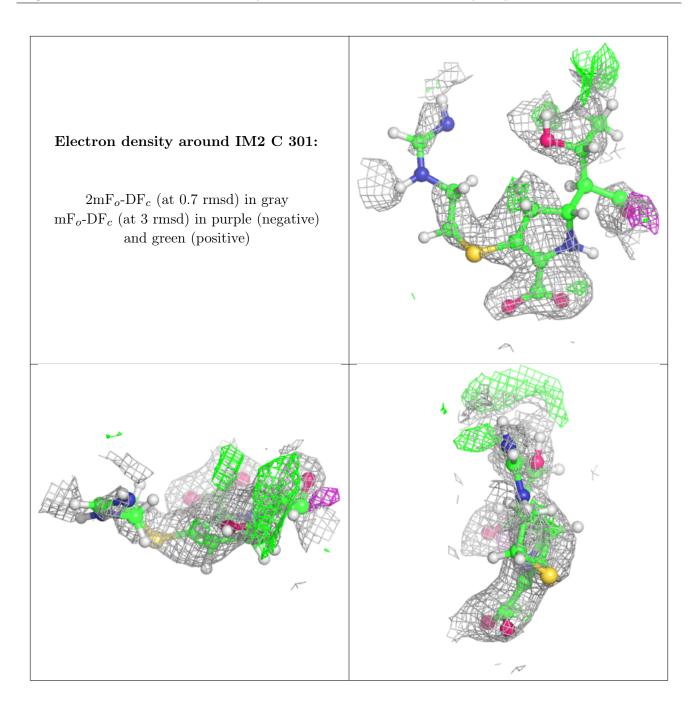
6.4 Ligands (i)

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.

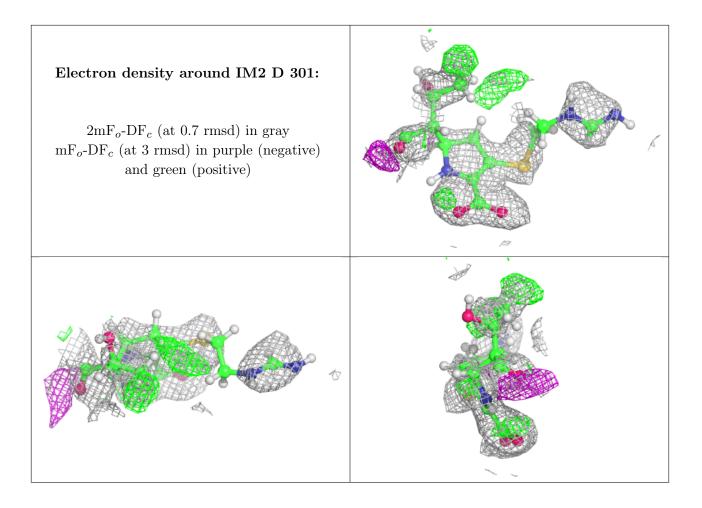
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
2	IM2	С	301	20/20	0.61	0.28	37,70,92,94	37
2	IM2	D	301	20/20	0.63	0.27	43,69,85,88	37
2	IM2	А	301	20/20	0.70	0.26	31,62,80,92	37
2	IM2	В	301	20/20	0.80	0.22	$23,\!67,\!95,\!95$	37
4	EDO	С	303	4/4	0.90	0.15	47,56,61,70	0
3	CL	D	302	1/1	0.97	0.07	34,34,34,34	0
3	CL	С	302	1/1	0.99	0.07	38,38,38,38	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.

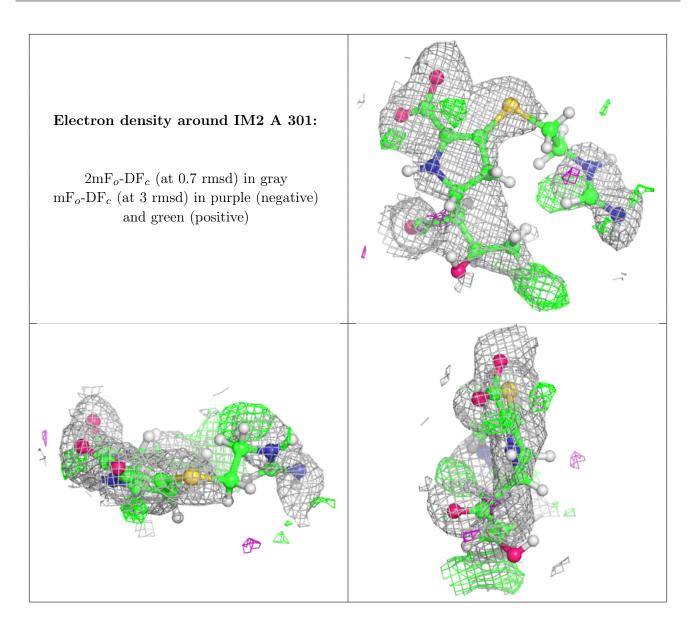




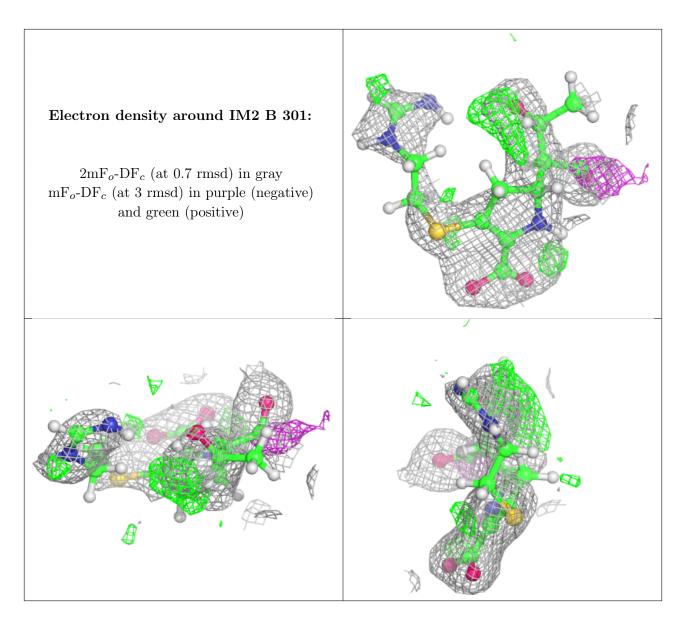












6.5 Other polymers (i)

There are no such residues in this entry.

