Full wwPDB X-ray Structure Validation Report (i)

Sep 11, 2023 – 06:20 PM JST

PDB ID	:	8GX2
Title	:	The crystal structure of human CtsL in complex with 14c
Authors	:	Zhao, Y.; Shao, M.; Zhao, J.; Yang, H.; Rao, Z.
Deposited on	:	2022-09-18
Resolution	:	2.00 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/XrayValidationReportHelp
with specific help available everywhere you see the (i) symbol.

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

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

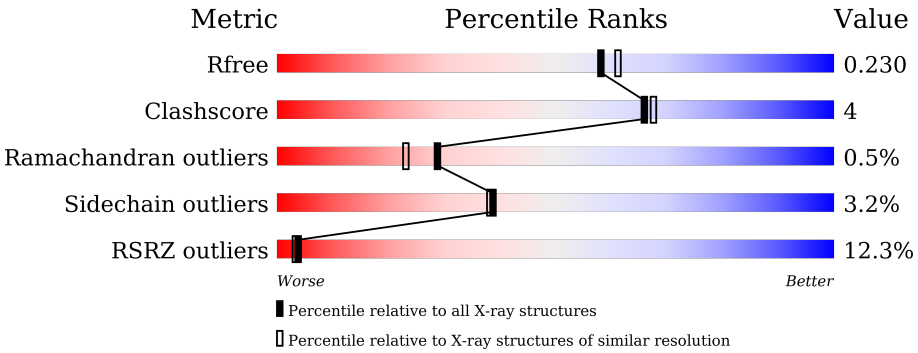
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.35.1
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.35.1

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 2.00 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}	130704	8085 (2.00-2.00)
Clashscore	141614	9178 (2.00-2.00)
Ramachandran outliers	138981	9054 (2.00-2.00)
Sidechain outliers	138945	9053 (2.00-2.00)
RSRZ outliers	127900	7900 (2.00-2.00)

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	333	9% 60% 6% 34%
1	B	333	7% 61% 5% 34%

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
2	DMS	A	303	-	-	X	-

2 Entry composition

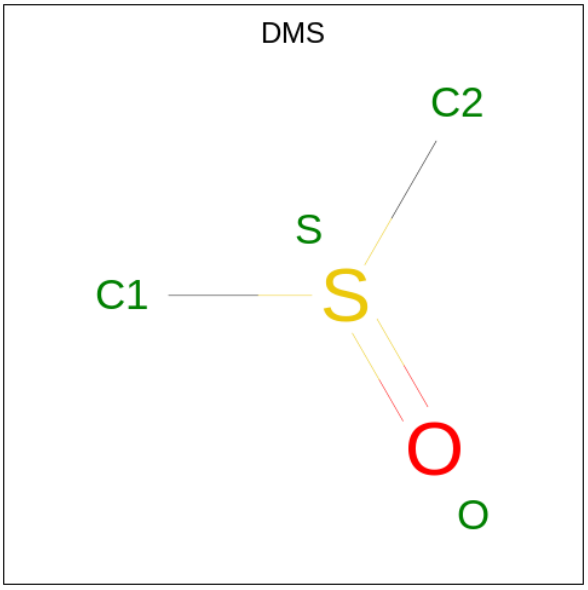
There are 4 unique types of molecules in this entry. The entry contains 3805 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 Procathepsin L.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	220	Total	C	N	O	S	1	1	0
			1675	1052	272	338	13			
1	B	220	Total	C	N	O	S	3	1	0
			1675	1052	272	338	13			

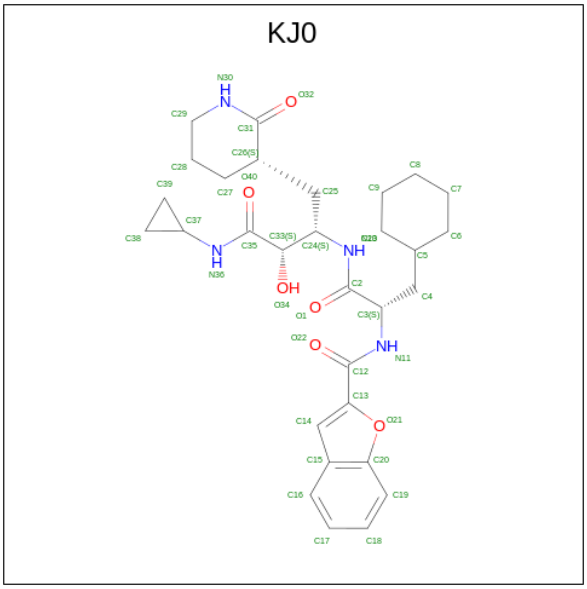
- Molecule 2 is DIMETHYL SULFOXIDE (three-letter code: DMS) (formula: C_2H_6OS).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	C	O	S	0	0
			4	2	1	1		
2	A	1	Total	C	O	S	0	0
			4	2	1	1		
2	B	1	Total	C	O	S	0	0
			4	2	1	1		

- Molecule 3 is N-[(2S)-3-cyclohexyl-1-[[(2S,3S)-4-(cyclopropylamino)-3-oxidanyl-4-oxidanylidene-1-[(3S)-2-oxidanylidenepiperidin-3-yl]butan-2-yl]amino]-1-oxidanylidene-propan-2-y

l]-1-benzofuran-2-carboxamide (three-letter code: KJ0) (formula: $C_{30}H_{40}N_4O_6$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	A	1	Total	C	N	O	0	0
			40	30	4	6		
3	B	1	Total	C	N	O	0	0
			40	30	4	6		

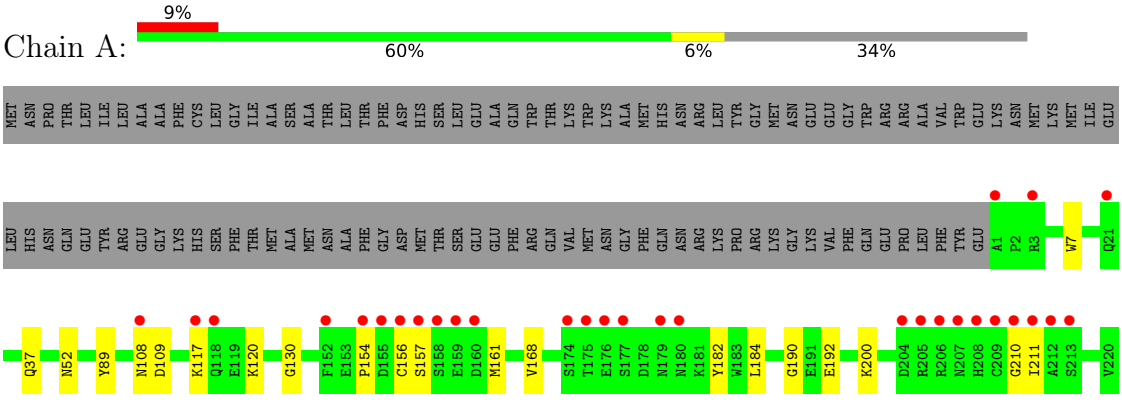
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	180	Total	O	0	0
			180	180		
4	B	183	Total	O	0	0
			183	183		

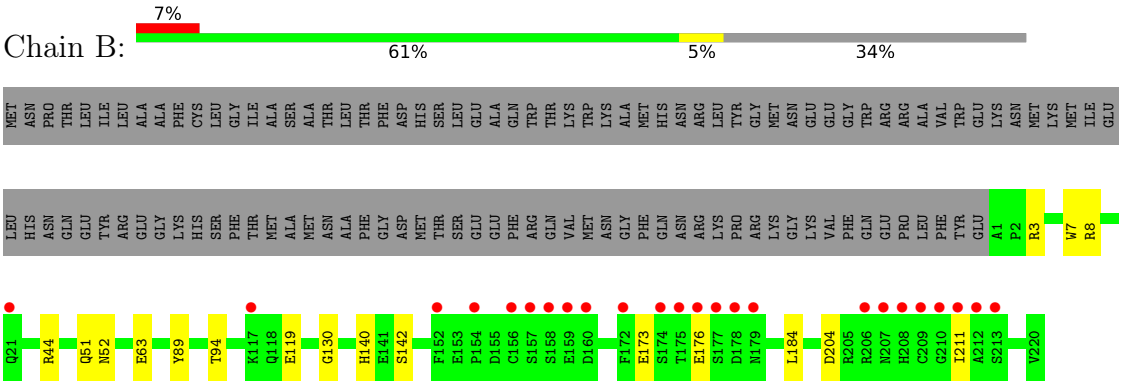
3 Residue-property plots (i)

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: Procathepsin L



• Molecule 1: Procathepsin L



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 2 21 21	Depositor
Cell constants a, b, c, α, β, γ	57.76Å 76.27Å 109.02Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	44.35 – 2.00 44.35 – 2.00	Depositor EDS
% Data completeness (in resolution range)	99.8 (44.35-2.00) 99.8 (44.35-2.00)	Depositor EDS
R_{merge}	0.33	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	2.52 (at 2.00Å)	Xtriage
Refinement program	PHENIX 1.19.2_4158	Depositor
R, R_{free}	0.194 , 0.232 0.194 , 0.230	Depositor DCC
R_{free} test set	1995 reflections (6.01%)	wwPDB-VP
Wilson B-factor (Å^2)	22.6	Xtriage
Anisotropy	0.345	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.35 , 58.5	EDS
L-test for twinning[2]	$< \|L\| > = 0.54$, $< L^2 > = 0.39$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.96	EDS
Total number of atoms	3805	wwPDB-VP
Average B, all atoms (Å^2)	32.0	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 52.54 % 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 4.7947e-05. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

[1] Intensities estimated from amplitudes.

[2] 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.

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: DMS, KJ0

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	0.42	0/1719	0.66	0/2327
1	B	0.47	0/1719	0.66	0/2327
All	All	0.44	0/3438	0.66	0/4654

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

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	1675	0	1536	13	0
1	B	1675	0	1536	13	0
2	A	8	0	12	5	0
2	B	4	0	6	3	0
3	A	40	0	0	0	0
3	B	40	0	0	0	0
4	A	180	0	0	2	0
4	B	183	0	0	1	0
All	All	3805	0	3090	26	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 4.

All (26) 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:44:ARG:HG2	1:B:44:ARG:HH11	1.64	0.62
1:B:140:HIS:HB3	2:B:301:DMS:H13	1.82	0.61
1:B:119:GLU:HG2	1:B:204:ASP:OD1	2.01	0.60
1:A:161:MET:HE3	1:A:210:GLY:O	2.01	0.60
1:B:142:SER:H	2:B:301:DMS:H13	1.67	0.59
1:A:161:MET:CE	1:A:210:GLY:O	2.49	0.59
1:A:156:CYS:SG	1:A:157:SER:N	2.75	0.59
1:A:192:GLU:H	2:A:303:DMS:H11	1.70	0.57
1:B:7:TRP:CE2	1:B:130:GLY:HA2	2.45	0.52
1:A:182:TYR:CD1	1:A:200:LYS:HG2	2.46	0.50
2:A:301:DMS:H13	4:A:573:HOH:O	2.11	0.50
1:B:211:ILE:O	1:B:211:ILE:HG12	2.12	0.49
1:A:190:GLY:HA3	2:A:303:DMS:H12	1.95	0.48
1:B:119:GLU:HB2	4:B:455:HOH:O	2.13	0.48
1:A:192:GLU:HG2	2:A:303:DMS:H13	1.96	0.48
1:B:142:SER:H	2:B:301:DMS:C1	2.28	0.47
1:B:8:ARG:NH2	1:B:184:LEU:HD21	2.29	0.47
1:A:7:TRP:CE2	1:A:130:GLY:HA2	2.50	0.46
1:B:44:ARG:HG2	1:B:44:ARG:NH1	2.32	0.43
1:A:168:VAL:HG23	1:A:184:LEU:HD23	2.00	0.43
1:A:192:GLU:HB2	4:A:404:HOH:O	2.17	0.43
1:A:192:GLU:HG2	2:A:303:DMS:C1	2.49	0.42
1:B:51:GLN:NE2	1:B:94:THR:O	2.50	0.41
1:A:37:GLN:NE2	1:B:63:GLU:OE2	2.45	0.41
1:A:161:MET:HE1	1:A:210:GLY:O	2.19	0.40
1:B:211:ILE:O	1:B:211:ILE:CG1	2.70	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	219/333 (66%)	203 (93%)	14 (6%)	2 (1%)	17 11
1	B	219/333 (66%)	209 (95%)	10 (5%)	0	100 100
All	All	438/666 (66%)	412 (94%)	24 (6%)	2 (0%)	29 23

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	211	ILE
1	A	154	PRO

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	173/276 (63%)	166 (96%)	7 (4%)	31 29
1	B	173/276 (63%)	168 (97%)	5 (3%)	42 43
All	All	346/552 (63%)	334 (96%)	12 (4%)	39 35

All (12) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	52	ASN
1	A	89	TYR
1	A	108[A]	ASN
1	A	108[B]	ASN
1	A	109	ASP
1	A	117	LYS
1	A	120	LYS
1	B	3	ARG
1	B	52	ASN
1	B	89	TYR
1	B	173	GLU
1	B	176	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are

no such sidechains identified.

5.3.3 RNA

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates

There are no monosaccharides in this entry.

5.6 Ligand geometry

5 ligands 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).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
2	DMS	A	303	-	3,3,3	0.57	0	3,3,3	0.53	0
2	DMS	A	301	-	3,3,3	0.56	0	3,3,3	0.47	0
3	KJ0	A	302	1	40,44,44	3.14	17 (42%)	47,61,61	1.37	7 (14%)
2	DMS	B	301	-	3,3,3	0.51	0	3,3,3	0.55	0
3	KJ0	B	302	1	40,44,44	3.12	16 (40%)	47,61,61	1.42	7 (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
3	KJ0	B	302	1	-	1/33/57/57	0/5/5/5
3	KJ0	A	302	1	-	0/33/57/57	0/5/5/5

All (33) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	302	KJ0	C31-N30	12.05	1.54	1.33
3	B	302	KJ0	C31-N30	11.76	1.54	1.33
3	B	302	KJ0	C26-C31	6.51	1.59	1.50
3	B	302	KJ0	C2-N23	6.40	1.48	1.34
3	A	302	KJ0	C26-C31	6.33	1.59	1.50
3	A	302	KJ0	C2-N23	6.21	1.47	1.34
3	B	302	KJ0	C35-N36	6.12	1.47	1.34
3	A	302	KJ0	C35-N36	5.94	1.47	1.34
3	A	302	KJ0	C12-N11	5.80	1.46	1.34
3	B	302	KJ0	C12-N11	5.56	1.46	1.34
3	A	302	KJ0	C27-C26	-3.61	1.43	1.53
3	B	302	KJ0	C27-C26	-3.22	1.44	1.53
3	A	302	KJ0	C29-N30	3.13	1.53	1.46
3	B	302	KJ0	C29-N30	3.09	1.53	1.46
3	A	302	KJ0	C13-C12	2.96	1.54	1.49
3	A	302	KJ0	C25-C26	2.88	1.60	1.53
3	B	302	KJ0	C13-C12	2.86	1.54	1.49
3	A	302	KJ0	C4-C5	2.79	1.57	1.53
3	B	302	KJ0	C28-C27	-2.77	1.45	1.53
3	B	302	KJ0	C4-C5	2.66	1.57	1.53
3	A	302	KJ0	C28-C27	-2.66	1.46	1.53
3	B	302	KJ0	C25-C26	2.64	1.59	1.53
3	A	302	KJ0	O32-C31	-2.30	1.18	1.23
3	A	302	KJ0	C39-C37	2.22	1.53	1.48
3	B	302	KJ0	C38-C37	2.17	1.53	1.48
3	B	302	KJ0	C39-C37	2.16	1.53	1.48
3	A	302	KJ0	C15-C20	-2.16	1.38	1.43
3	B	302	KJ0	C15-C20	-2.16	1.38	1.43
3	B	302	KJ0	O32-C31	-2.14	1.19	1.23
3	A	302	KJ0	C38-C37	2.07	1.53	1.48
3	A	302	KJ0	O22-C12	-2.02	1.19	1.23
3	B	302	KJ0	O40-C35	-2.02	1.19	1.23
3	A	302	KJ0	O1-C2	-2.01	1.19	1.23

All (14) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	B	302	KJ0	C29-N30-C31	-4.02	114.14	125.79
3	A	302	KJ0	C29-N30-C31	-3.54	115.54	125.79
3	B	302	KJ0	C38-C37-N36	-3.30	113.87	118.61
3	A	302	KJ0	C39-C37-N36	-3.14	114.11	118.61
3	A	302	KJ0	C24-N23-C2	-3.01	117.76	123.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	B	302	KJ0	C2-C3-N11	-2.64	103.98	111.16
3	A	302	KJ0	C2-C3-N11	-2.54	104.25	111.16
3	A	302	KJ0	C25-C24-N23	-2.51	106.94	110.18
3	A	302	KJ0	C14-C15-C20	-2.35	104.23	106.27
3	B	302	KJ0	C24-N23-C2	-2.29	119.02	123.07
3	A	302	KJ0	C38-C37-N36	-2.19	115.47	118.61
3	B	302	KJ0	C5-C4-C3	-2.13	111.65	114.52
3	B	302	KJ0	C28-C27-C26	2.08	115.27	111.33
3	B	302	KJ0	C27-C26-C31	2.05	117.98	112.01

There are no chirality outliers.

All (1) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	B	302	KJ0	O22-C12-C13-C14

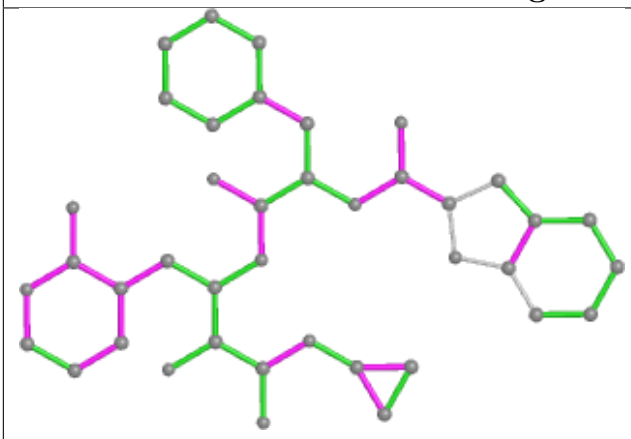
There are no ring outliers.

3 monomers are involved in 8 short contacts:

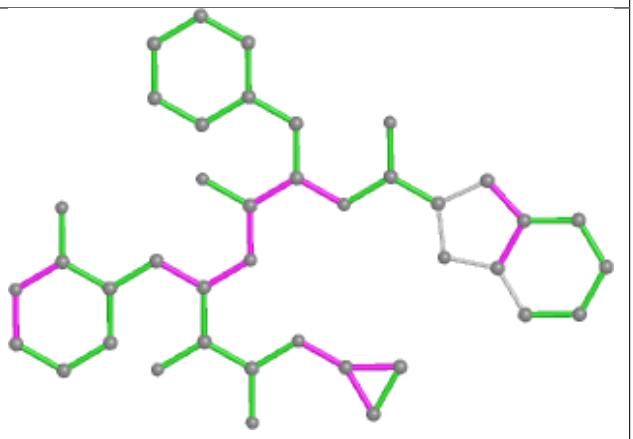
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	303	DMS	4	0
2	A	301	DMS	1	0
2	B	301	DMS	3	0

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.

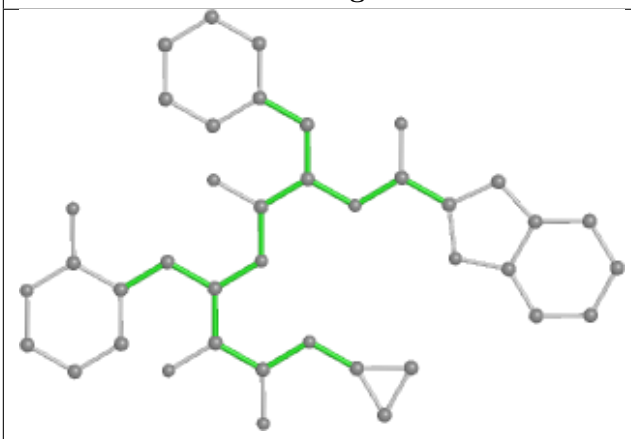
Ligand KJ0 A 302



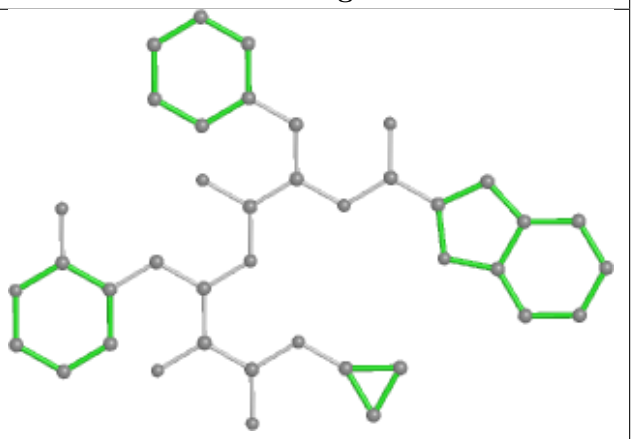
Bond lengths



Bond angles

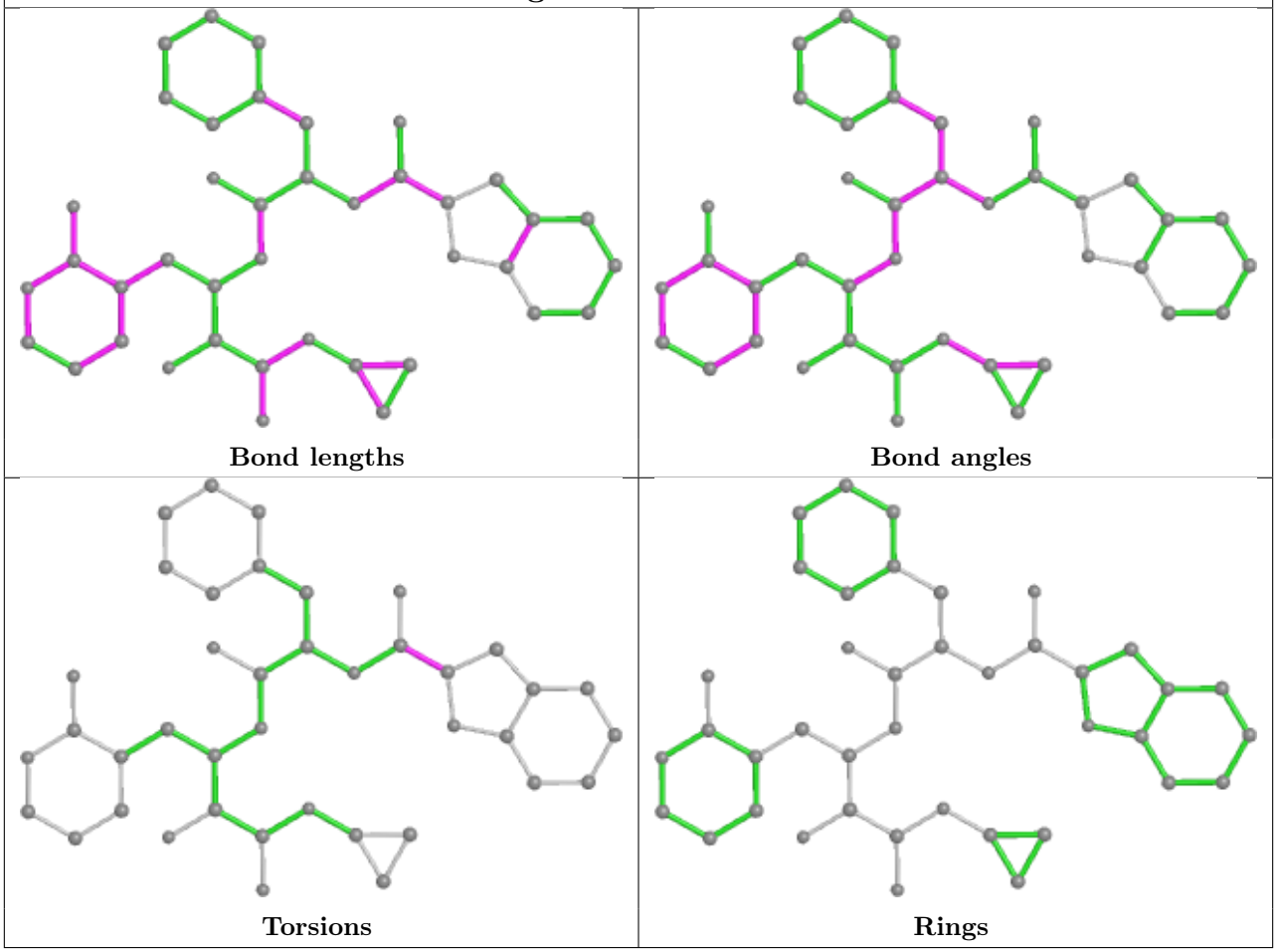


Torsions



Rings

Ligand KJ0 B 302



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

6.1 Protein, DNA and RNA chains

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			OWAB(Å^2)	Q<0.9
1	A	220/333 (66%)	0.47	30 (13%)	3	2	16, 24, 89, 139	3 (1%)
1	B	220/333 (66%)	0.30	24 (10%)	5	5	16, 24, 87, 116	3 (1%)
All	All	440/666 (66%)	0.38	54 (12%)	4	3	16, 24, 89, 139	6 (1%)

All (54) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	208	HIS	13.0
1	B	175	THR	10.0
1	A	207	ASN	8.3
1	A	157	SER	7.1
1	A	175	THR	7.1
1	B	179	ASN	6.7
1	A	156	CYS	6.6
1	B	177	SER	6.0
1	B	209	CYS	6.0
1	B	211	ILE	5.9
1	B	176	GLU	5.6
1	B	156	CYS	5.2
1	A	159	GLU	5.1
1	B	174	SER	5.0
1	A	211	ILE	4.9
1	A	205	ARG	4.8
1	B	208	HIS	4.3
1	A	158	SER	4.2
1	B	213	SER	4.2
1	A	209	CYS	4.1
1	A	176	GLU	4.1
1	B	212	ALA	4.1
1	B	206	ARG	3.9
1	A	212	ALA	3.8

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Mol	Chain	Res	Type	RSRZ
1	A	152	PHE	3.8
1	B	159	GLU	3.8
1	A	160	ASP	3.8
1	A	179	ASN	3.8
1	B	157	SER	3.6
1	A	206	ARG	3.6
1	B	152	PHE	3.3
1	B	178	ASP	3.1
1	A	204	ASP	3.1
1	A	174	SER	2.9
1	A	155	ASP	2.9
1	B	207	ASN	2.8
1	A	108[A]	ASN	2.8
1	A	118	GLN	2.6
1	A	154	PRO	2.6
1	A	213	SER	2.6
1	B	21	GLN	2.6
1	B	160	ASP	2.6
1	B	210	GLY	2.5
1	A	117	LYS	2.5
1	A	180	ASN	2.5
1	B	172	PHE	2.3
1	A	210	GLY	2.3
1	A	21	GLN	2.3
1	B	117	LYS	2.3
1	A	1	ALA	2.2
1	A	177	SER	2.2
1	B	158	SER	2.1
1	B	154	PRO	2.1
1	A	3	ARG	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)

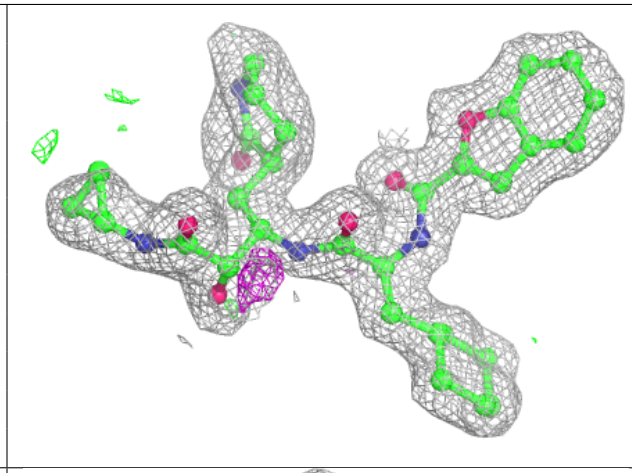
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9'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

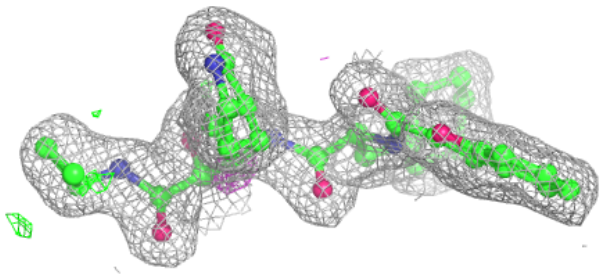
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
2	DMS	A	303	4/4	0.91	0.19	33,41,42,43	0
3	KJ0	A	302	40/40	0.94	0.12	15,22,35,41	0
3	KJ0	B	302	40/40	0.95	0.11	15,20,30,34	0
2	DMS	A	301	4/4	0.96	0.23	29,34,38,38	0
2	DMS	B	301	4/4	0.97	0.20	20,30,36,39	0

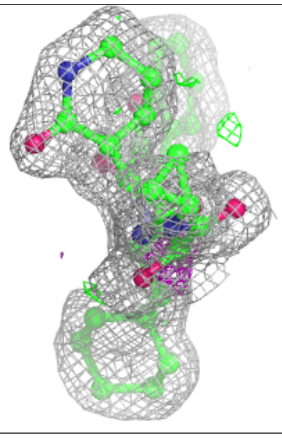
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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

Electron density around KJ0 A 302:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

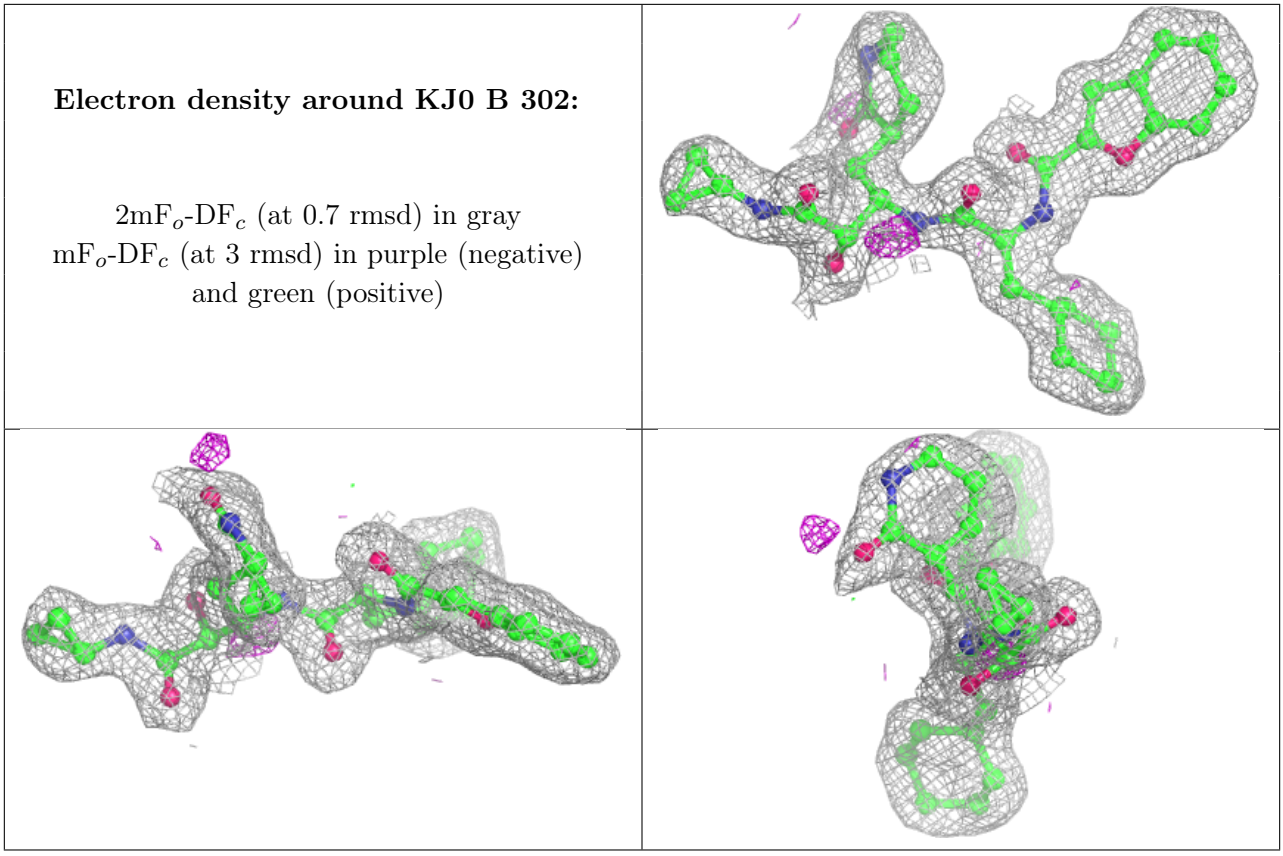






Electron density around KJ0 B 302:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)



6.5 Other polymers

There are no such residues in this entry.