



Full wwPDB X-ray Structure Validation Report ⓘ

Oct 4, 2021 – 12:08 PM JST

PDB ID : 7F8Y
Title : Crystal structure of the cholecystokinin receptor CCKAR in complex with devazepide
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Deposited on : 2021-07-02
Resolution : 2.50 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 ⓘ symbol.

The following versions of software and data (see [references ⓘ](#)) 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 : 2.23.2
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) : 2.23.2

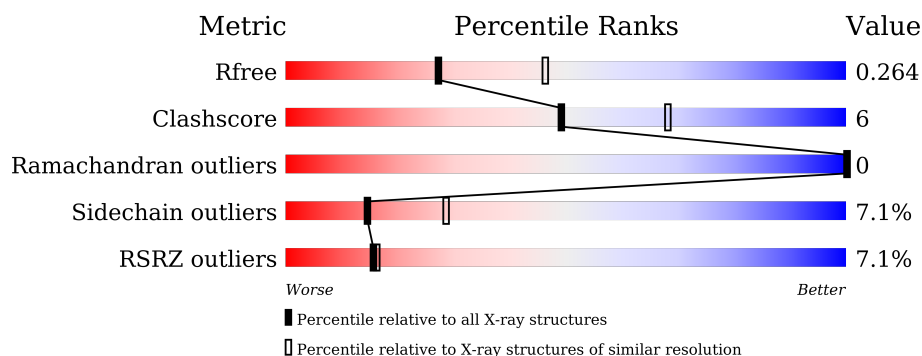
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.50 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	4661 (2.50-2.50)
Clashscore	141614	5346 (2.50-2.50)
Ramachandran outliers	138981	5231 (2.50-2.50)
Sidechain outliers	138945	5233 (2.50-2.50)
RSRZ outliers	127900	4559 (2.50-2.50)

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 $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	534	<div> <div>6%</div> <div>66%</div> <div>15%</div> <div>•</div> <div>18%</div> </div>

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 3499 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 fusion protein of Cholecystokinin receptor type A and Endolysin.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	438	Total	C	N	O	S	0	0	0
			3468	2256	585	601	26			

There are 71 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-8	ASP	-	expression tag	UNP P32238
A	-7	TYR	-	expression tag	UNP P32238
A	-6	LYS	-	expression tag	UNP P32238
A	-5	ASP	-	expression tag	UNP P32238
A	-4	ASP	-	expression tag	UNP P32238
A	-3	ASP	-	expression tag	UNP P32238
A	-2	ASP	-	expression tag	UNP P32238
A	-1	GLY	-	expression tag	UNP P32238
A	0	ALA	-	expression tag	UNP P32238
A	1	PRO	-	expression tag	UNP P32238
A	2	ASP	-	expression tag	UNP P32238
A	3	VAL	-	expression tag	UNP P32238
A	4	VAL	-	expression tag	UNP P32238
A	5	ASP	-	expression tag	UNP P32238
A	6	SER	-	expression tag	UNP P32238
A	7	LEU	-	expression tag	UNP P32238
A	8	LEU	-	expression tag	UNP P32238
A	9	VAL	-	expression tag	UNP P32238
A	10	ASN	-	expression tag	UNP P32238
A	11	GLY	-	expression tag	UNP P32238
A	12	SER	-	expression tag	UNP P32238
A	13	ASN	-	expression tag	UNP P32238
A	14	ILE	-	expression tag	UNP P32238
A	15	THR	-	expression tag	UNP P32238
A	16	PRO	-	expression tag	UNP P32238
A	17	PRO	-	expression tag	UNP P32238

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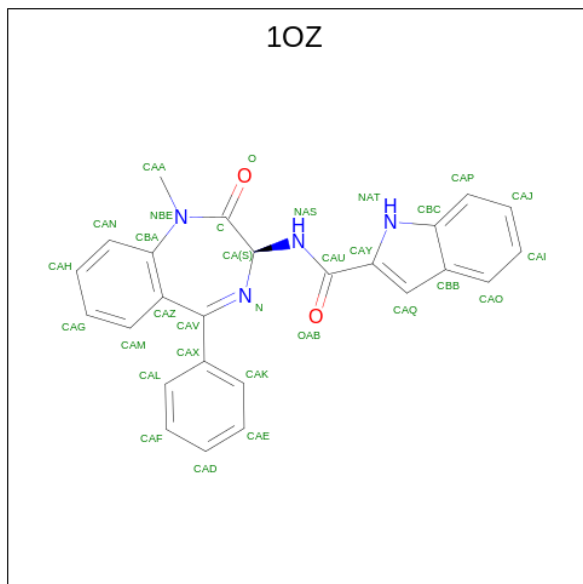
Chain	Residue	Modelled	Actual	Comment	Reference
A	18	CYS	-	expression tag	UNP P32238
A	19	GLU	-	expression tag	UNP P32238
A	20	LEU	-	expression tag	UNP P32238
A	21	GLY	-	expression tag	UNP P32238
A	22	LEU	-	expression tag	UNP P32238
A	23	GLU	-	expression tag	UNP P32238
A	24	ASN	-	expression tag	UNP P32238
A	25	GLU	-	expression tag	UNP P32238
A	26	THR	-	expression tag	UNP P32238
A	27	LEU	-	expression tag	UNP P32238
A	28	PHE	-	expression tag	UNP P32238
A	29	CYS	-	expression tag	UNP P32238
A	30	LEU	-	expression tag	UNP P32238
A	31	ASP	-	expression tag	UNP P32238
A	32	GLN	-	expression tag	UNP P32238
A	33	PRO	-	expression tag	UNP P32238
A	34	ARG	-	expression tag	UNP P32238
A	35	PRO	-	expression tag	UNP P32238
A	36	SER	-	expression tag	UNP P32238
A	87	ASN	ASP	engineered mutation	UNP P32238
A	130	TRP	PHE	engineered mutation	UNP P32238
A	1251	GLY	ARG	engineered mutation	UNP P00720
A	1293	THR	CYS	engineered mutation	UNP P00720
A	1336	ALA	CYS	engineered mutation	UNP P00720
A	1376	ARG	ILE	engineered mutation	UNP P00720
A	407	GLU	-	expression tag	UNP P32238
A	408	PHE	-	expression tag	UNP P32238
A	409	LEU	-	expression tag	UNP P32238
A	410	GLU	-	expression tag	UNP P32238
A	411	VAL	-	expression tag	UNP P32238
A	412	LEU	-	expression tag	UNP P32238
A	413	PHE	-	expression tag	UNP P32238
A	414	GLN	-	expression tag	UNP P32238
A	415	GLY	-	expression tag	UNP P32238
A	416	PRO	-	expression tag	UNP P32238
A	417	HIS	-	expression tag	UNP P32238
A	418	HIS	-	expression tag	UNP P32238
A	419	HIS	-	expression tag	UNP P32238
A	420	HIS	-	expression tag	UNP P32238
A	421	HIS	-	expression tag	UNP P32238
A	422	HIS	-	expression tag	UNP P32238
A	423	HIS	-	expression tag	UNP P32238

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Chain	Residue	Modelled	Actual	Comment	Reference
A	424	HIS	-	expression tag	UNP P32238
A	425	HIS	-	expression tag	UNP P32238
A	426	HIS	-	expression tag	UNP P32238

- Molecule 2 is N-[(3S)-1-methyl-2-oxidanylidene-5-phenyl-3H-1,4-benzodiazepin-3-yl]-1H-indole-2-carboxamide (three-letter code: 1OZ) (formula: C₂₅H₂₀N₄O₂) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	C	N	O	0	0
			31	25	4	2		

- Molecule 1: fusion protein of Cholecystikinin receptor type A and Endolysin



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	54.78Å 72.42Å 86.14Å 90.00° 107.28° 90.00°	Depositor
Resolution (Å)	29.77 – 2.50 29.77 – 2.50	Depositor EDS
% Data completeness (in resolution range)	89.4 (29.77-2.50) 82.5 (29.77-2.50)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	0.67 (at 2.51Å)	Xtriage
Refinement program	PHENIX 1.19.2_4158	Depositor
R, R_{free}	0.215 , 0.268 0.213 , 0.264	Depositor DCC
R_{free} test set	1806 reflections (8.94%)	wwPDB-VP
Wilson B-factor (Å ²)	58.0	Xtriage
Anisotropy	0.641	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 65.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	0.035 for h,-k,-h-l	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	3499	wwPDB-VP
Average B, all atoms (Å ²)	80.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 7.02% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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.

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: 1OZ

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	0/3543	0.60	0/4813

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	3468	0	3575	42	0
2	A	31	0	0	0	0
All	All	3499	0	3575	42	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 6.

All (42) 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:1322:LYS:NZ	1:A:1354:THR:OG1	2.23	0.71
1:A:151:VAL:O	1:A:154:THR:HG22	1.91	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1261:GLU:OE2	1:A:1380:GLN:NE2	2.26	0.69
1:A:51:ILE:HD12	1:A:357:LEU:HD11	1.79	0.64
1:A:69:ASN:OD1	1:A:69:ASN:N	2.31	0.62
1:A:52:PHE:HD1	1:A:95:MET:HE3	1.65	0.61
1:A:374:ASN:ND2	1:A:374:ASN:O	2.33	0.61
1:A:154:THR:HG23	1:A:157:HIS:H	1.65	0.61
1:A:68:ARG:HB3	1:A:69:ASN:OD1	2.01	0.60
1:A:149:SER:O	1:A:149:SER:OG	2.24	0.56
1:A:70:LYS:HA	1:A:73:ARG:HD3	1.90	0.54
1:A:100:ILE:HB	1:A:101:PRO:HD3	1.91	0.53
1:A:56:VAL:HG23	1:A:91:CYS:SG	2.49	0.52
1:A:74:THR:O	1:A:78:ILE:HG13	2.09	0.52
1:A:209:TRP:O	1:A:212:PHE:HB3	2.11	0.50
1:A:200:LEU:HD12	1:A:206:GLN:HA	1.94	0.50
1:A:88:LEU:HD22	1:A:92:LEU:HD11	1.95	0.49
1:A:39:TRP:O	1:A:42:ALA:N	2.42	0.49
1:A:328:PRO:HG2	1:A:358:LEU:HD23	1.95	0.48
1:A:1309:ASP:HB3	1:A:1343:PHE:CE2	2.48	0.48
1:A:75:VAL:HG11	1:A:138:GLU:HG3	1.96	0.48
1:A:1291:ARG:HG3	1:A:1293:THR:HG22	1.94	0.48
1:A:236:LEU:HD13	1:A:309:LYS:HG3	1.97	0.47
1:A:325:CYS:CB	1:A:362:SER:HB3	2.45	0.47
1:A:340:THR:O	1:A:344:GLU:HG3	2.14	0.47
1:A:48:TYR:CD1	1:A:99:LEU:HB2	2.50	0.46
1:A:94:CYS:HA	1:A:117:THR:HG23	1.98	0.46
1:A:52:PHE:CD1	1:A:95:MET:HE3	2.49	0.46
1:A:1258:LYS:HE3	1:A:1258:LYS:HB3	1.53	0.45
1:A:119:TYR:CD1	1:A:177:PRO:HD3	2.52	0.45
1:A:1260:THR:HG21	1:A:1381:THR:CG2	2.47	0.45
1:A:107:PHE:CE2	1:A:114:CYS:HB2	2.53	0.44
1:A:130:TRP:CZ2	1:A:221:PRO:HG3	2.53	0.43
1:A:39:TRP:CE3	1:A:40:GLN:HA	2.55	0.42
1:A:1258:LYS:HA	1:A:1263:TYR:O	2.20	0.42
1:A:350:THR:O	1:A:353:SER:HB3	2.19	0.42
1:A:145:LYS:HB3	1:A:148:GLN:HB2	2.01	0.41
1:A:213:LEU:HD13	1:A:330:PHE:HE2	1.84	0.41
1:A:99:LEU:O	1:A:103:LEU:HB2	2.20	0.41
1:A:52:PHE:HA	1:A:95:MET:HE1	2.03	0.41
1:A:220:ILE:HB	1:A:221:PRO:HD3	2.03	0.40
1:A:350:THR:N	1:A:351:PRO:CD	2.83	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

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	436/534 (82%)	412 (94%)	24 (6%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains

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	379/468 (81%)	352 (93%)	27 (7%)	14	28

All (27) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	61	LEU
1	A	69	ASN
1	A	71	ARG
1	A	73	ARG
1	A	81	LEU
1	A	88	LEU
1	A	121	MET
1	A	137	LEU
1	A	152	TRP
1	A	173	MET
1	A	187	LYS
1	A	223	ILE
1	A	1252	LEU

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Mol	Chain	Res	Type
1	A	1253	ARG
1	A	1256	ILE
1	A	1258	LYS
1	A	1260	THR
1	A	1291	ARG
1	A	1294	ASN
1	A	1379	ASN
1	A	313	ARG
1	A	327	MET
1	A	340	THR
1	A	364	CYS
1	A	371	CYS
1	A	374	ASN
1	A	375	LYS

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](#)

1 ligand is 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	1OZ	A	1501	-	32,35,35	3.36	14 (43%)	42,50,50	2.45	11 (26%)

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	1OZ	A	1501	-	-	2/8/32/32	0/5/5/5

All (14) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	1501	1OZ	CAV-N	12.45	1.44	1.28
2	A	1501	1OZ	CAZ-CAV	6.77	1.59	1.49
2	A	1501	1OZ	CAM-CAZ	6.10	1.49	1.39
2	A	1501	1OZ	C-NBE	4.56	1.44	1.37
2	A	1501	1OZ	CAN-CBA	4.49	1.47	1.39
2	A	1501	1OZ	OAB-CAU	-4.42	1.14	1.23
2	A	1501	1OZ	CAU-NAS	2.97	1.40	1.34
2	A	1501	1OZ	CAX-CAV	2.60	1.53	1.49
2	A	1501	1OZ	CBA-NBE	2.56	1.50	1.42
2	A	1501	1OZ	CAH-CAG	2.45	1.44	1.38
2	A	1501	1OZ	CAH-CAN	2.22	1.43	1.38
2	A	1501	1OZ	CAJ-CAI	2.21	1.43	1.38
2	A	1501	1OZ	CAP-CBC	2.13	1.45	1.41
2	A	1501	1OZ	CAO-CBB	2.06	1.46	1.41

All (11) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	1501	1OZ	CAX-CAV-N	-9.20	106.76	117.27
2	A	1501	1OZ	CAZ-CAV-CAX	-6.63	110.40	118.11
2	A	1501	1OZ	CAM-CAZ-CAV	-6.17	111.55	119.22
2	A	1501	1OZ	CBA-CAZ-CAV	4.11	128.39	122.73
2	A	1501	1OZ	CAZ-CAV-N	-3.73	119.62	124.39
2	A	1501	1OZ	CAN-CBA-NBE	-2.61	112.84	119.02
2	A	1501	1OZ	CAY-NAT-CBC	2.36	109.37	104.45
2	A	1501	1OZ	CA-NAS-CAU	-2.20	117.68	121.96
2	A	1501	1OZ	CAK-CAX-CAV	-2.17	117.90	120.64
2	A	1501	1OZ	CAZ-CBA-NBE	2.17	126.34	121.89
2	A	1501	1OZ	CAL-CAX-CAK	2.07	121.54	118.59

There are no chirality outliers.

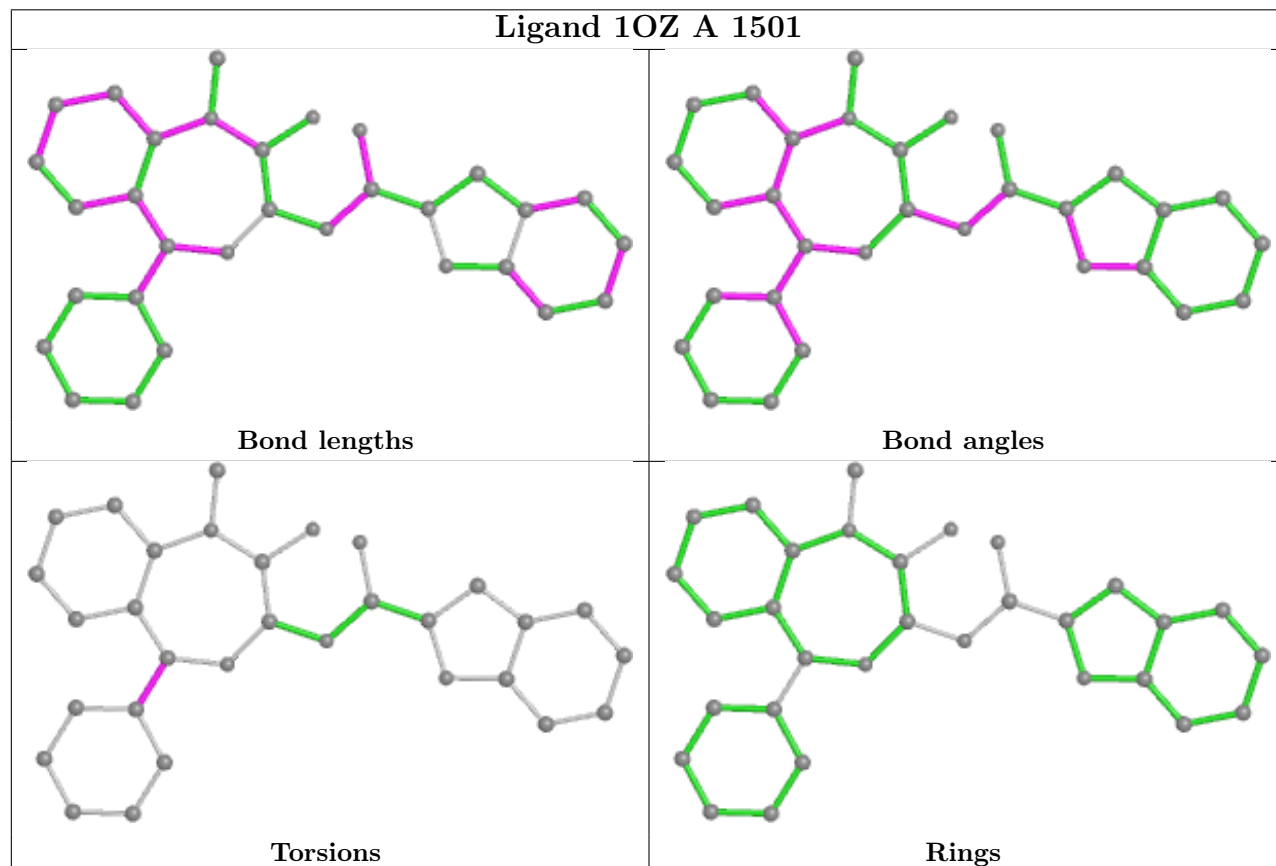
All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	1501	1OZ	N-CAV-CAX-CAK
2	A	1501	1OZ	N-CAV-CAX-CAL

There are no ring outliers.

No monomer is involved in short contacts.

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.



5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

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, 95th 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	438/534 (82%)	0.45	31 (7%) 16 16	49, 75, 116, 154	0

All (31) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	147	LEU	4.4
1	A	149	SER	3.7
1	A	192	THR	3.3
1	A	37	LYS	3.3
1	A	71	ARG	3.2
1	A	132	LEU	3.0
1	A	1295	GLY	2.9
1	A	188	ASN	2.9
1	A	1290	GLY	2.9
1	A	193	ALA	2.8
1	A	1256	ILE	2.8
1	A	39	TRP	2.7
1	A	1263	TYR	2.7
1	A	1262	GLY	2.7
1	A	1296	VAL	2.6
1	A	184	PRO	2.5
1	A	69	ASN	2.5
1	A	83	LEU	2.4
1	A	345	ARG	2.4
1	A	187	LYS	2.4
1	A	1294	ASN	2.4
1	A	1292	ASN	2.3
1	A	1277	SER	2.3
1	A	123	THR	2.3
1	A	67	ILE	2.3
1	A	128	SER	2.3
1	A	124	SER	2.2

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Mol	Chain	Res	Type	RSRZ
1	A	372	PHE	2.1
1	A	131	ASN	2.1
1	A	86	SER	2.0
1	A	1252	LEU	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](#)

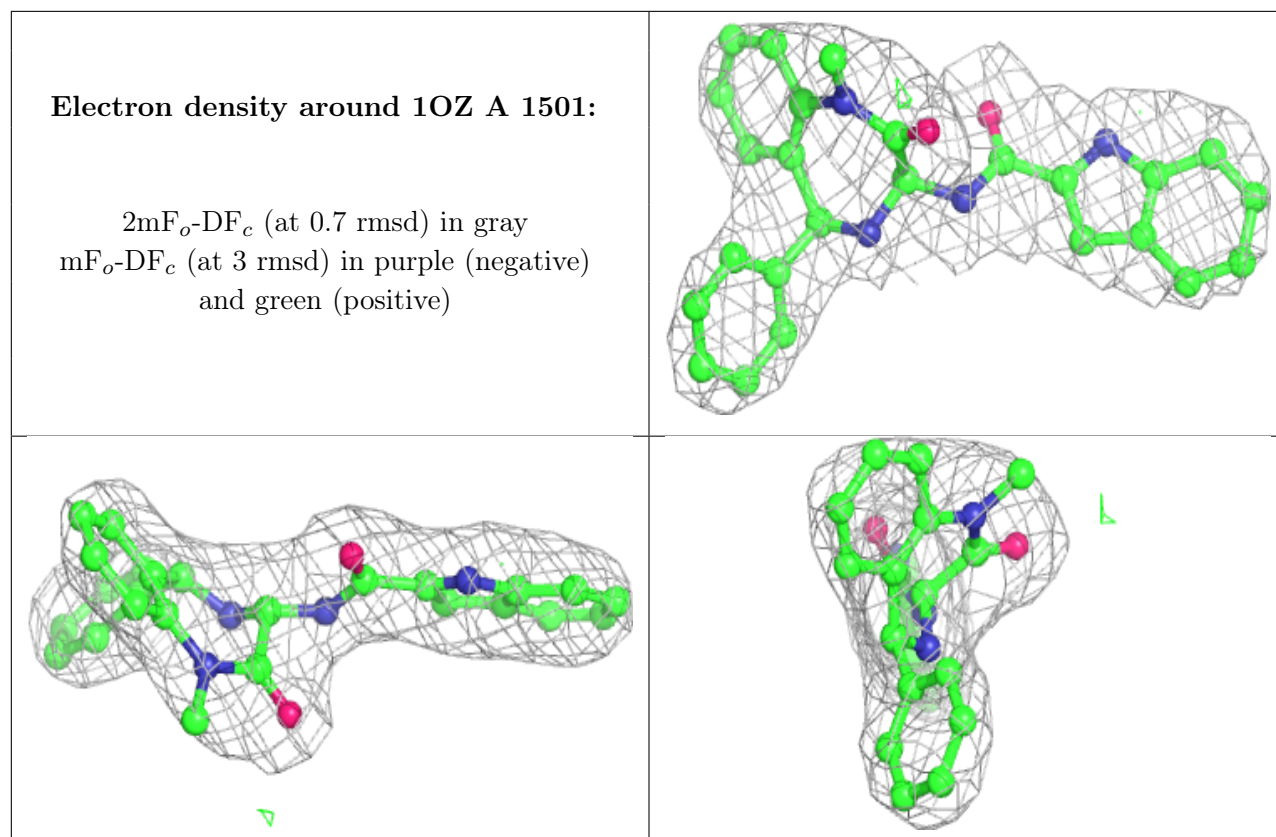
There are no monosaccharides in this entry.

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, 95th 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(\AA^2)	Q<0.9
2	1OZ	A	1501	31/31	0.94	0.23	50,63,77,84	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.