



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 8, 2026 – 02:49 PM UTC

PDB ID : 1O2Z / pdb_00001o2z
Title : Elaborate Manifold of Short Hydrogen Bond Arrays Mediating Binding of Active Site-Directed Serine Protease Inhibitors
Authors : Katz, B.A.; Elrod, K.; Verner, E.; Mackman, R.L.; Luong, C.; Shrader, W.D.; Sendzik, M.; Spencer, J.R.; Sprengeler, P.A.; Kolesnikov, A.; Tai, V.W.; Hui, H.C.; Breitenbucher, J.G.; Allen, D.; Janc, J.W.
Deposited on : 2003-03-06
Resolution : 1.65 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 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	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

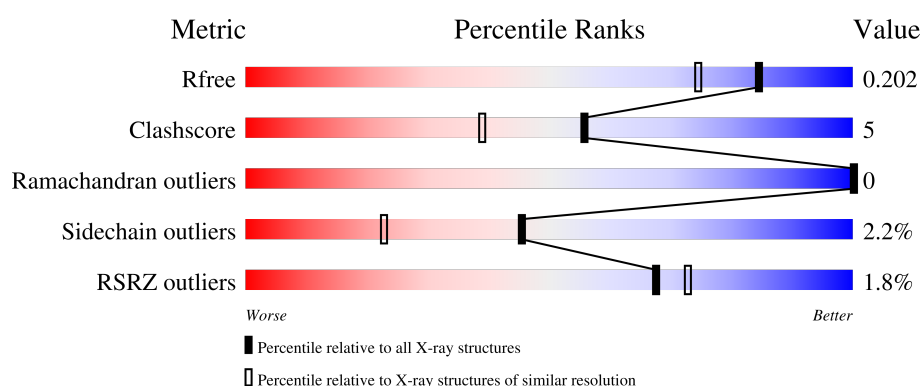
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.65 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}	180053	2563 (1.66-1.66)
Clashscore	190562	2662 (1.66-1.66)
Ramachandran outliers	187476	2621 (1.66-1.66)
Sidechain outliers	187428	2621 (1.66-1.66)
RSRZ outliers	180081	2564 (1.66-1.66)

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 $\leq 5\%$. 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	223	2% 67% 31% .

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 3801 atoms, of which 1956 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.

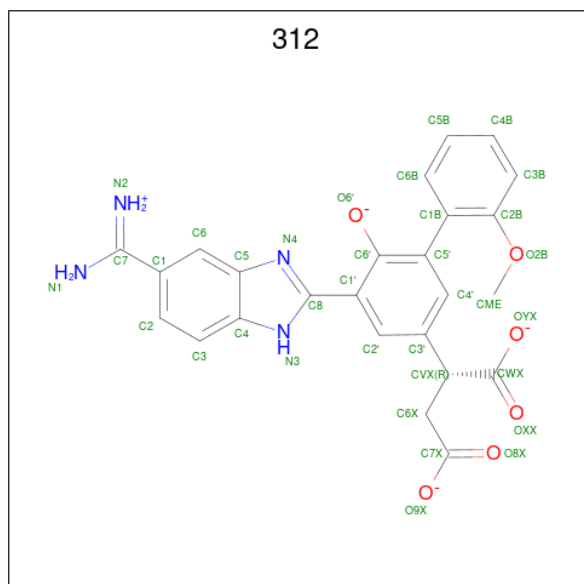
- Molecule 1 is a protein called BETA-TRYPSIN.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	223	Total	C	H	N	O	S	0	12	0
			3340	1043	1666	284	333	14			

- Molecule 2 is CALCIUM ION (CCD ID: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	1	Total	Ca	0	0
			1	1		

- Molecule 3 is 2-(5-{5-[AMINO(IMINIO)METHYL]-1H-BENZIMIDAZOL-2-YL}-2'-METHOXY-6-OXIDO-1,1'-BIPHENYL-3-YL)SUCCINATE (CCD ID: 312) (formula: C₂₅H₂₀N₄O₆).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	A	1	Total	C	H	N	O	0	0
			55	25	20	4	6		

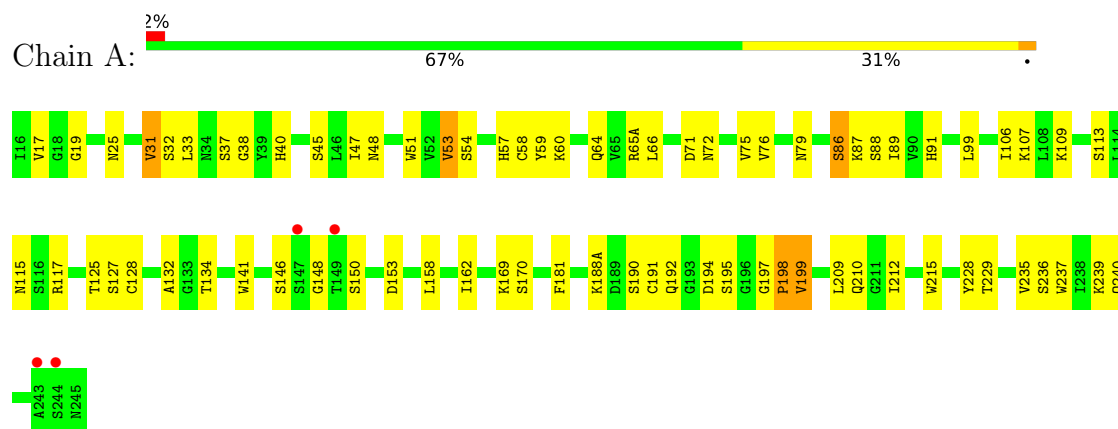
- Molecule 4 is water.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	A	134	Total	H	O	0	2
			405	270	135		

3 Residue-property plots

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-TRYPSIN



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	63.96Å 61.73Å 70.08Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	7.00 – 1.65 7.00 – 1.65	Depositor EDS
% Data completeness (in resolution range)	73.2 (7.00-1.65) 72.1 (7.00-1.65)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.42 (at 1.65Å)	Xtriage
Refinement program	X-PLOR 3.851	Depositor
R, R_{free}	0.188 , 0.234 0.198 , 0.202	Depositor DCC
R_{free} test set	2491 reflections (10.14%)	wwPDB-VP
Wilson B-factor (Å ²)	11.0	Xtriage
Anisotropy	0.262	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.50 , 77.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	0.022 for k,h,-l	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	3801	wwPDB-VP
Average B, all atoms (Å ²)	19.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 8.77% 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

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: CA, 312

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	1.87	19/1749 (1.1%)	1.87	53/2367 (2.2%)

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	2

All (19) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	89	ILE	CA-CB	7.80	1.63	1.53
1	A	40	HIS	CD2-NE2	-7.65	1.29	1.37
1	A	91	HIS	CD2-NE2	-7.33	1.29	1.37
1	A	239	LYS	CA-CB	7.32	1.64	1.53
1	A	57	HIS	CG-ND1	-6.42	1.31	1.38
1	A	240	GLN	CA-CB	6.17	1.62	1.53
1	A	40	HIS	CG-ND1	-5.59	1.32	1.38
1	A	57	HIS	CB-CG	5.55	1.57	1.50
1	A	57	HIS	CG-CD2	5.50	1.42	1.35
1	A	51	TRP	NE1-CE2	-5.36	1.31	1.37
1	A	75	VAL	N-CA	5.35	1.52	1.46
1	A	87[A]	LYS	CA-CB	5.33	1.64	1.54
1	A	87[B]	LYS	CA-CB	5.33	1.64	1.54
1	A	19	GLY	N-CA	5.29	1.49	1.44
1	A	91	HIS	CG-ND1	-5.17	1.32	1.38
1	A	87[A]	LYS	N-CA	5.10	1.52	1.45
1	A	87[B]	LYS	N-CA	5.10	1.52	1.45
1	A	212	ILE	CA-CB	5.07	1.61	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	57	HIS	CD2-NE2	-5.01	1.32	1.37

All (53) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	48	ASN	CA-CB-CG	8.79	121.39	112.60
1	A	128	CYS	N-CA-C	-8.43	98.37	110.59
1	A	210	GLN	OE1-CD-NE2	-8.33	114.27	122.60
1	A	33	LEU	N-CA-C	-7.63	96.30	108.73
1	A	148	GLY	N-CA-C	-7.47	104.53	112.08
1	A	88	SER	N-CA-C	-7.41	96.24	108.76
1	A	76	VAL	N-CA-C	-7.01	98.49	108.58
1	A	37	SER	N-CA-C	-6.97	101.96	110.88
1	A	199	VAL	N-CA-C	-6.96	94.23	106.61
1	A	58	CYS	N-CA-C	-6.95	104.41	113.17
1	A	75	VAL	CA-C-O	-6.86	113.09	120.36
1	A	132	ALA	N-CA-C	-6.77	101.14	110.35
1	A	71	ASP	CA-CB-CG	-6.70	105.90	112.60
1	A	107	LYS	N-CA-C	-6.68	98.83	109.59
1	A	38	GLY	N-CA-C	-6.58	106.37	114.92
1	A	146	SER	N-CA-C	-6.46	105.55	113.50
1	A	235	VAL	N-CA-C	6.42	116.58	110.42
1	A	190	SER	N-CA-C	-6.37	100.48	110.36
1	A	197	GLY	N-CA-C	6.33	119.89	112.23
1	A	169	LYS	CA-CB-CG	-6.30	101.50	114.10
1	A	162	ILE	N-CA-C	-6.09	100.92	109.21
1	A	54	SER	N-CA-C	-6.09	100.34	108.19
1	A	198	PRO	N-CA-C	6.05	121.79	111.68
1	A	109	LYS	CA-CB-CG	-6.05	102.01	114.10
1	A	141	TRP	CG-CD1-NE1	-5.98	102.43	110.20
1	A	237	TRP	NE1-CE2-CZ2	5.96	139.04	130.10
1	A	53[A]	VAL	N-CA-C	-5.79	100.13	108.53
1	A	53[B]	VAL	N-CA-C	-5.79	100.13	108.53
1	A	64	GLN	N-CA-C	-5.71	99.60	108.90
1	A	141	TRP	NE1-CE2-CZ2	5.69	138.64	130.10
1	A	127	SER	N-CA-C	-5.68	100.49	108.96
1	A	181	PHE	CA-CB-CG	5.64	119.44	113.80
1	A	113[A]	SER	N-CA-C	-5.59	99.61	108.73
1	A	113[B]	SER	N-CA-C	-5.59	99.61	108.73
1	A	150	SER	N-CA-C	-5.58	97.90	107.61
1	A	237	TRP	CG-CD1-NE1	-5.57	102.96	110.20
1	A	229	THR	N-CA-C	-5.55	101.63	109.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	79	ASN	CA-CB-CG	-5.43	107.17	112.60
1	A	134	THR	CA-CB-OG1	-5.41	101.49	109.60
1	A	25	ASN	OD1-CG-ND2	-5.38	117.22	122.60
1	A	240	GLN	OE1-CD-NE2	-5.35	117.25	122.60
1	A	215	TRP	NE1-CE2-CZ2	5.34	138.11	130.10
1	A	86[A]	SER	N-CA-C	-5.30	103.45	111.56
1	A	86[B]	SER	N-CA-C	-5.30	103.45	111.56
1	A	106	ILE	N-CA-C	-5.26	100.55	108.12
1	A	57	HIS	CA-CB-CG	5.14	118.94	113.80
1	A	141	TRP	CD1-NE1-CE2	5.12	118.12	108.90
1	A	210	GLN	CG-CD-NE2	5.12	124.08	116.40
1	A	32	SER	N-CA-C	-5.07	101.43	109.59
1	A	148	GLY	CA-C-O	-5.02	118.71	122.37
1	A	170	SER	CA-CB-OG	-5.02	101.07	111.10
1	A	215	TRP	CG-CD1-NE1	-5.01	103.69	110.20
1	A	115	ASN	OD1-CG-ND2	-5.00	117.60	122.60

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	117	ARG	Sidechain
1	A	65(A)	ARG	Sidechain

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	1674	1666	1639	16	0
2	A	1	0	0	0	0
3	A	35	20	20	1	0
4	A	135	270	0	2	0
All	All	1845	1956	1659	16	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 5.

All (16) 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:195[A]:SER:HB2	4:A:383[A]:HOH:O	1.95	0.65
1:A:195[A]:SER:CB	4:A:383[A]:HOH:O	2.49	0.61
1:A:31:VAL:HG12	1:A:66[A]:LEU:CD2	2.40	0.52
1:A:45:SER:OG	1:A:198:PRO:HB3	2.11	0.49
1:A:59:TYR:C	1:A:59:TYR:CD1	2.91	0.47
1:A:47:ILE:HD13	1:A:53[B]:VAL:CG2	2.44	0.47
1:A:192:GLN:HE22	3:A:246:312:C7X	2.29	0.46
1:A:158:LEU:HD11	1:A:188(A):LYS:HB3	1.99	0.45
1:A:31:VAL:HG12	1:A:66[A]:LEU:HD23	2.02	0.42
1:A:72:ASN:HA	1:A:153:ASP:O	2.20	0.42
1:A:99:LEU:HD23	1:A:99:LEU:HA	1.88	0.42
1:A:53[A]:VAL:HG11	1:A:209:LEU:CD2	2.49	0.42
1:A:59:TYR:CG	1:A:60:LYS:N	2.88	0.41
1:A:199:VAL:HG21	1:A:228:TYR:CD1	2.56	0.41
1:A:17:VAL:O	1:A:188(A):LYS:HA	2.21	0.40
1:A:191:CYS:O	1:A:194:ASP:HB2	2.21	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	233/223 (104%)	222 (95%)	11 (5%)	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	196/184 (106%)	191 (97%)	5 (3%)	40 17

All (5) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	31	VAL
1	A	86[A]	SER
1	A	86[B]	SER
1	A	125	THR
1	A	236	SER

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	192	GLN
1	A	223	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 oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 2 ligands modelled in this entry, 1 is monoatomic - leaving 1 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	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
3	312	A	246	-	38,38,38	2.15	14 (36%)	52,55,55	1.56	10 (19%)

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	312	A	246	-	-	7/26/26/26	0/4/4/4

All (14) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	246	312	C4-N3	-5.09	1.29	1.38
3	A	246	312	C1B-C5'	-5.08	1.39	1.49
3	A	246	312	C6X-CVX	4.07	1.63	1.53
3	A	246	312	C4-C5	-3.94	1.34	1.40
3	A	246	312	C5-N4	-3.54	1.32	1.39
3	A	246	312	C1-C7	-3.10	1.41	1.47
3	A	246	312	C8-N3	-3.05	1.30	1.36
3	A	246	312	C6X-C7X	2.70	1.58	1.51
3	A	246	312	C2-C1	2.66	1.43	1.39
3	A	246	312	C6-C1	2.63	1.43	1.39
3	A	246	312	OYX-CWX	-2.46	1.22	1.30
3	A	246	312	C1'-C8	-2.33	1.43	1.47
3	A	246	312	O9X-C7X	-2.22	1.23	1.30
3	A	246	312	C4'-C5'	-2.02	1.36	1.39

All (10) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	246	312	C5-N4-C8	-4.17	100.31	105.17
3	A	246	312	C3'-CVX-CWX	-3.19	103.62	109.67
3	A	246	312	C2'-C1'-C6'	-3.11	115.77	119.39
3	A	246	312	CME-O2B-C2B	3.09	122.05	117.51
3	A	246	312	O2B-C2B-C3B	-2.91	119.39	124.30
3	A	246	312	O2B-C2B-C1B	2.89	120.60	116.31
3	A	246	312	OXX-CWX-CVX	-2.59	115.06	122.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	246	312	C6'-C1'-C8	2.50	122.53	119.55
3	A	246	312	C4-C5-N4	2.23	112.48	109.42
3	A	246	312	C1B-C5'-C6'	2.06	125.19	121.80

There are no chirality outliers.

All (7) torsion outliers are listed below:

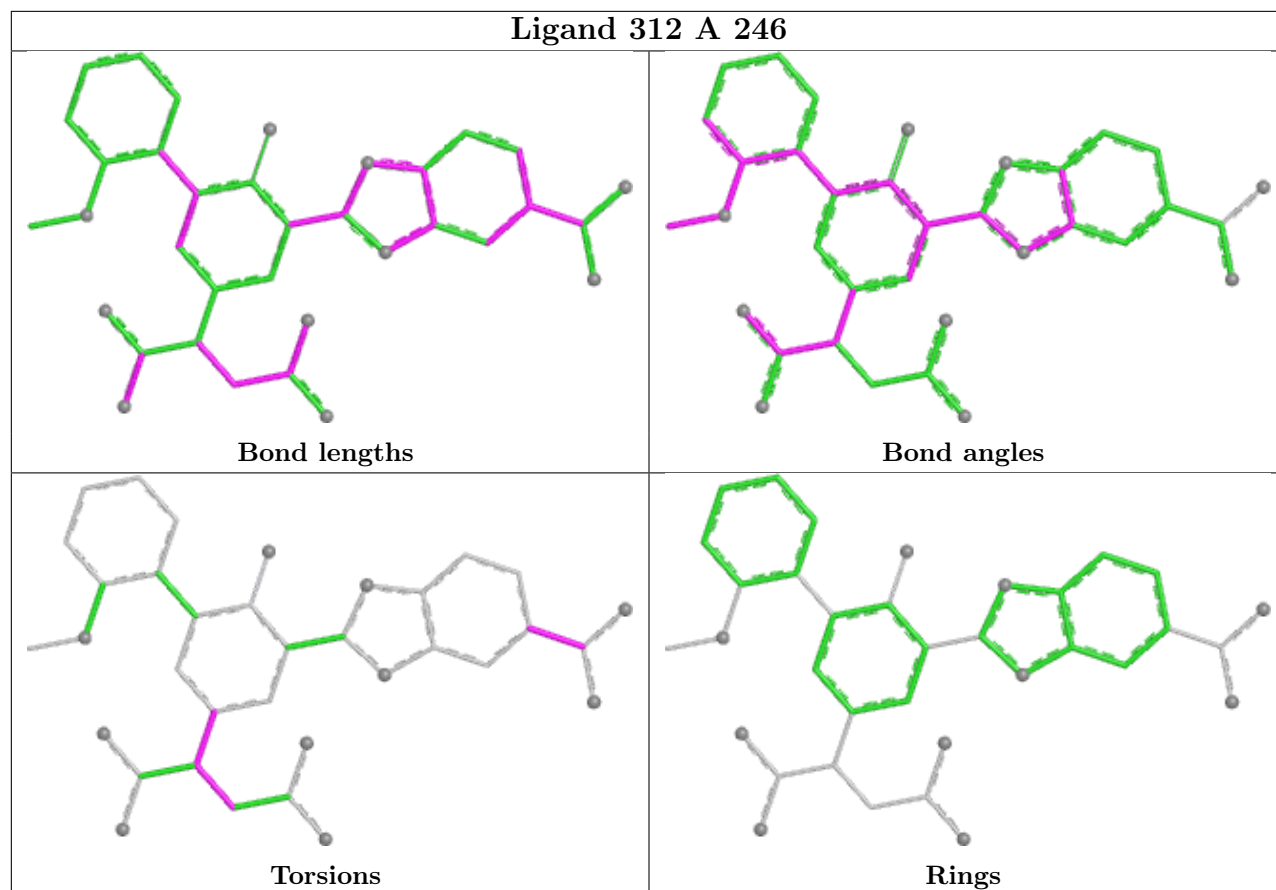
Mol	Chain	Res	Type	Atoms
3	A	246	312	C7X-C6X-CVX-C3'
3	A	246	312	C7X-C6X-CVX-CWX
3	A	246	312	C2-C1-C7-N1
3	A	246	312	C6-C1-C7-N1
3	A	246	312	C2-C1-C7-N2
3	A	246	312	C6-C1-C7-N2
3	A	246	312	C4'-C3'-CVX-C6X

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	246	312	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 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 [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, 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	223/223 (100%)	-0.41	4 (1%) 67 73	4, 15, 29, 51	25 (11%)

All (4) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	147	SER	4.2
1	A	244	SER	2.5
1	A	149	THR	2.1
1	A	243	ALA	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 oligosaccharides in this entry.

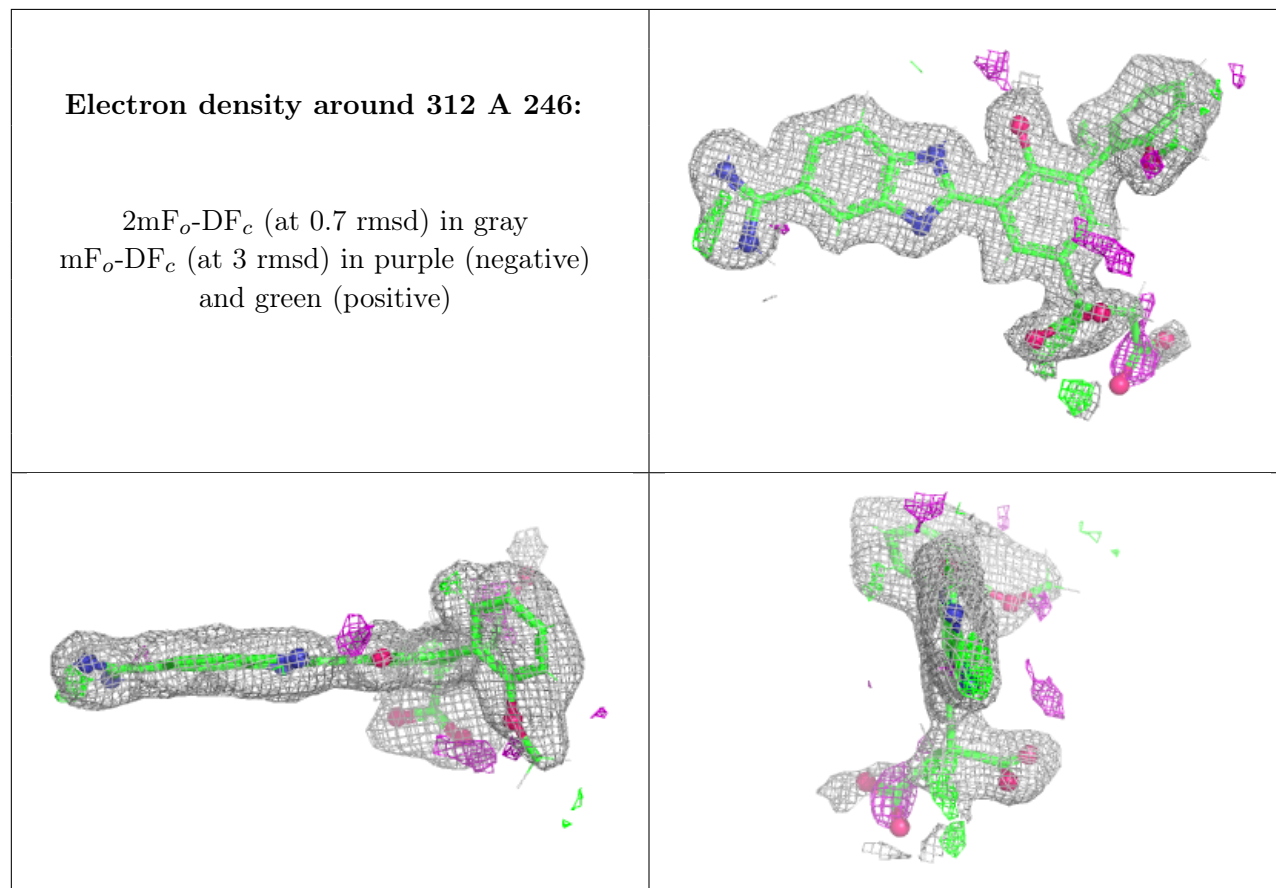
6.4 Ligands [i](#)

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(Å ²)	Q<0.9
2	CA	A	247	1/1	0.76	0.15	44,44,44,44	0
3	312	A	246	35/35	0.94	0.08	12,18,45,56	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 ⓘ

There are no such residues in this entry.