Full wwPDB X-ray Structure Validation Report ⓘ

Nov 2, 2026 – 10:15 AM EST

PDB ID	:	36KJ / pdb_000036kj
Title	:	Crystal structure of Danio rerio histone deacetylase 6 catalytic domain 2 in complex with spirocyclic inhibitor 20b
Authors	:	Eafa, A.; Goulart Stollmaier, J.; Christianson, D.W.
Deposited on	:	2026-06-15
Resolution	:	1.86 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 ⓘ) were used in the production of this report:

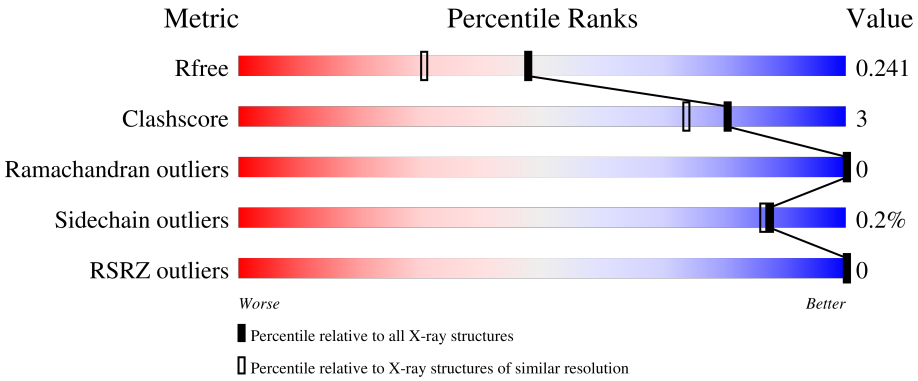
MolProbity	:	4-5-2 with Phenix2.2
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.2
EDS	:	3.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.015 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.51

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 1.86 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	3428 (1.86-1.86)
Clashscore	190562	3579 (1.86-1.86)
Ramachandran outliers	187476	3553 (1.86-1.86)
Sidechain outliers	187428	3553 (1.86-1.86)
RSRZ outliers	180081	3429 (1.86-1.86)

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	1081	30% · 68%
1	B	1081	31% · 68%

2 Entry composition

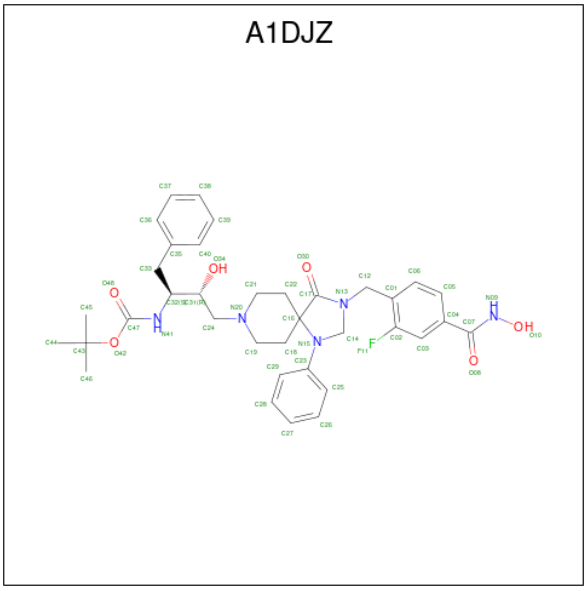
There are 6 unique types of molecules in this entry. The entry contains 10953 atoms, of which 5013 are hydrogens and 0 are deuteriums.

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 Protein deacetylase HDAC6.

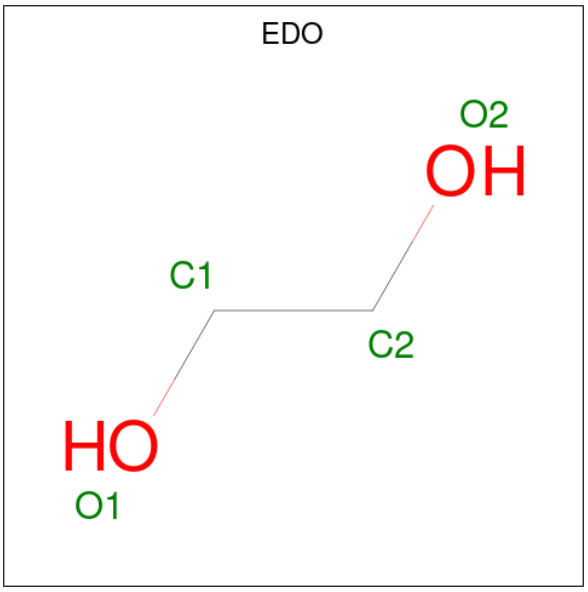
Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	349	Total	C	H	N	O	S	0	0	0
			5111	1667	2465	473	488	18			
1	B	349	Total	C	H	N	O	S	0	0	0
			5078	1657	2448	470	485	18			

- Molecule 2 is tert-butyl [(2S,3R)-4-(3-{[2-fluoro-4-(hydroxycarbamoyl)phenyl]methyl}-4-oxo-1-phenyl-1,3,8-triazaspiro[4.5]decan-8-yl)-3-hydroxy-1-phenylbutan-2-yl]carbamate (CCD ID: A1DJZ) (formula: $C_{36}H_{44}FN_5O_6$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
2	A	1	Total	C	F	H	N	O	0	0
			92	36	1	44	5	6		
2	B	1	Total	C	F	H	N	O	0	0
			92	36	1	44	5	6		

- Molecule 3 is 1,2-ETHANEDIOL (CCD ID: EDO) (formula: $C_2H_6O_2$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total C H O 10 2 6 2	0	0
3	B	1	Total C H O 10 2 6 2	0	0

- Molecule 4 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	1	Total Zn 1 1	0	0
4	B	1	Total Zn 1 1	0	0

- Molecule 5 is POTASSIUM ION (CCD ID: K) (formula: K).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	2	Total K 2 2	0	0
5	B	2	Total K 2 2	0	0

- Molecule 6 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	A	275	Total O 275 275	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	B	279	Total O 279 279	0	0

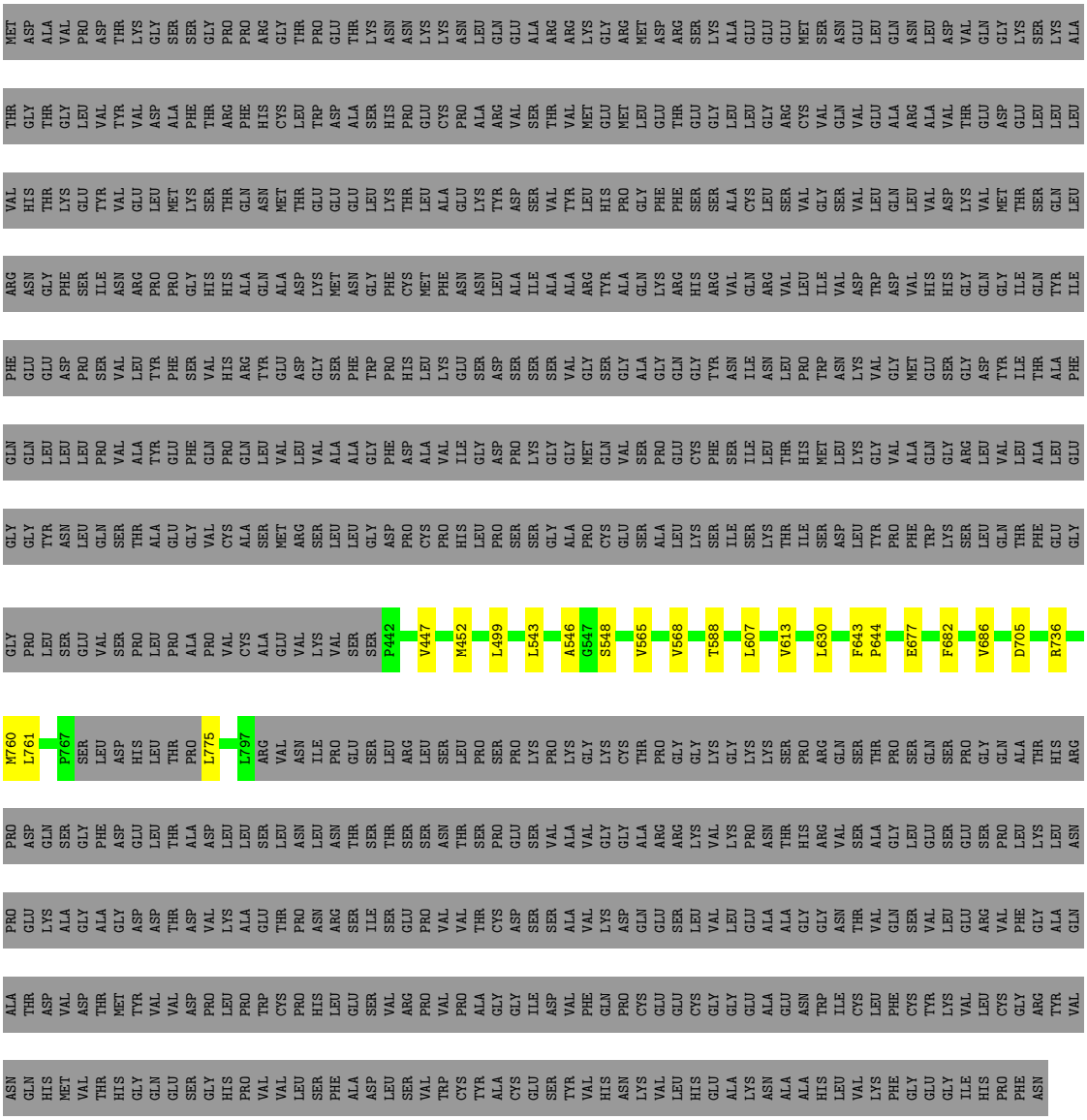
3 Residue-property plots (i)

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: Protein deacetylase HDAC6

Chain A:

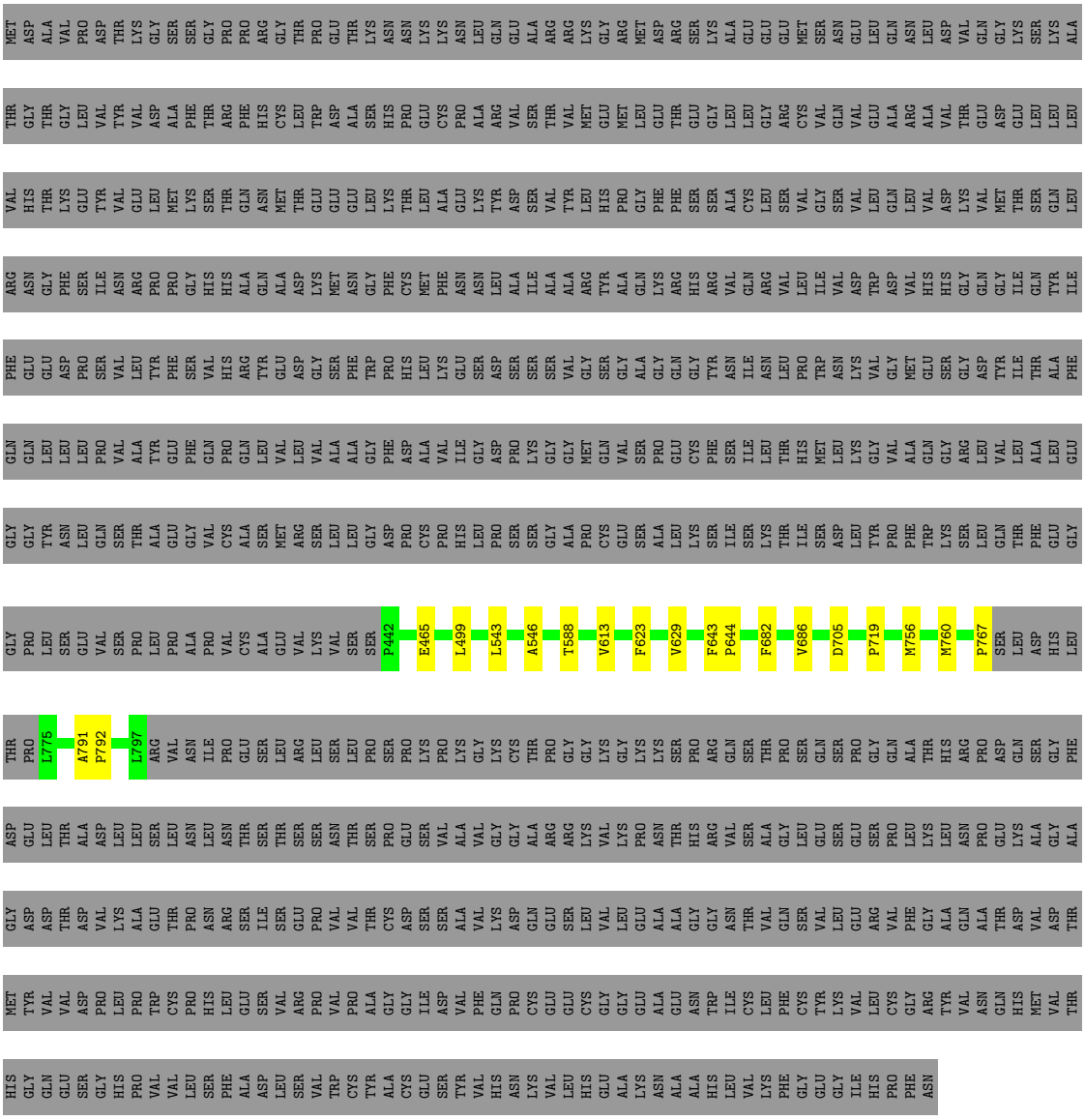




• Molecule 1: Protein deacetylase HDAC6

Chain B:


31%
68%


P442
E465
L499
L543
A546
T588
V613
F623
V629
F643
P644
F682
V686
D705
P719
M756
M760
P767
L775
A791
P792
L797

4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α, β, γ	48.16Å 55.64Å 76.26Å 69.69° 87.33° 86.25°	Depositor
Resolution (Å)	33.93 – 1.86 33.93 – 1.86	Depositor EDS
% Data completeness (in resolution range)	97.7 (33.93-1.86) 97.7 (33.93-1.86)	Depositor EDS
R_{merge}	0.27	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.65 (at 1.85Å)	Xtriage
Refinement program	PHENIX 1.21.2_5419	Depositor
R, R_{free}	0.201 , 0.242 0.201 , 0.241	Depositor DCC
R_{free} test set	1993 reflections (3.19%)	wwPDB-VP
Wilson B-factor (Å^2)	8.4	Xtriage
Anisotropy	0.706	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.40 , 25.6	EDS
L-test for twinning[2]	$< \|L\| > = 0.50$, $< L^2 > = 0.33$	Xtriage
Estimated twinning fraction	0.011 for -h,-k,-k+l	Xtriage
F_o,F_c correlation	0.94	EDS
Total number of atoms	10953	wwPDB-VP
Average B, all atoms (Å^2)	13.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 8.18% of the height of the origin peak. No significant pseudotranslation is detected.*

[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: ZN, K, EDO, A1DJZ

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	0.17	0/2712	0.37	0/3691
1	B	0.18	0/2695	0.37	0/3667
All	All	0.17	0/5407	0.37	0/7358

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	2646	2465	2499	15	0
1	B	2630	2448	2479	12	0
2	A	48	44	0	0	0
2	B	48	44	0	0	0
3	A	4	6	6	1	0
3	B	4	6	6	0	0
4	A	1	0	0	0	0
4	B	1	0	0	0	0
5	A	2	0	0	0	0
5	B	2	0	0	0	0
6	A	275	0	0	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	B	279	0	0	0	0
All	All	5940	5013	4990	27	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 3.

All (27) 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:499:LEU:HD11	1:A:543:LEU:HD21	1.83	0.59
1:A:452:MET:HE1	1:A:568:VAL:HG12	1.85	0.57
1:A:607:LEU:HD13	1:A:630:LEU:HD23	1.88	0.55
1:A:499:LEU:HD11	1:A:543:LEU:CD2	2.38	0.54
1:A:760:MET:HA	1:A:760:MET:HE2	1.92	0.52
1:B:760:MET:HE2	1:B:760:MET:HA	1.92	0.51
1:A:677:GLU:HA	1:A:775:LEU:HD11	1.94	0.50
1:A:643:PHE:HB3	3:A:1102:EDO:H22	1.95	0.48
1:A:565:VAL:HG13	1:A:761:LEU:HD12	1.95	0.47
1:A:565:VAL:CG1	1:A:761:LEU:HD12	2.45	0.47
1:B:682:PHE:HA	1:B:686:VAL:HB	1.96	0.46
1:A:643:PHE:CG	1:A:644:PRO:HA	2.51	0.45
1:B:613:VAL:HG12	1:B:705:ASP:CG	2.42	0.45
1:B:623:PHE:CE1	1:B:629:VAL:HG21	2.52	0.45
1:A:546:ALA:HA	1:A:588:THR:HG23	1.98	0.44
1:A:613:VAL:HG12	1:A:705:ASP:CG	2.43	0.44
1:B:499:LEU:HD11	1:B:543:LEU:CD2	2.47	0.43
1:A:736:ARG:HD3	6:A:1358:HOH:O	2.18	0.43
1:B:499:LEU:HD11	1:B:543:LEU:HD21	2.00	0.43
1:B:546:ALA:HA	1:B:588:THR:HG23	2.01	0.42
1:A:682:PHE:HA	1:A:686:VAL:HB	2.01	0.42
1:B:643:PHE:CG	1:B:644:PRO:HA	2.55	0.41
1:B:719:PRO:HB3	1:B:756:MET:HG3	2.01	0.41
1:A:447:VAL:HG21	1:A:548:SER:HB3	2.03	0.41
1:B:643:PHE:CD1	1:B:644:PRO:HA	2.56	0.41
1:B:756:MET:HE1	1:B:767:PRO:HG3	2.03	0.41
1:B:791:ALA:N	1:B:792:PRO:CD	2.85	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	345/1081 (32%)	334 (97%)	11 (3%)	0	100	100
1	B	345/1081 (32%)	336 (97%)	9 (3%)	0	100	100
All	All	690/2162 (32%)	670 (97%)	20 (3%)	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	273/915 (30%)	273 (100%)	0	100	100
1	B	270/915 (30%)	269 (100%)	1 (0%)	84	82
All	All	543/1830 (30%)	542 (100%)	1 (0%)	87	86

All (1) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	465	GLU

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 oligosaccharides in this entry.

5.6 Ligand geometry (i)

Of 10 ligands modelled in this entry, 6 are monoatomic - leaving 4 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	$\#\|Z\| > 2$
2	A1DJZ	A	1101	-	51,52,52	3.37	12 (23%)	72,75,75	1.87	17 (23%)
2	A1DJZ	B	1101	-	51,52,52	3.39	11 (21%)	72,75,75	1.95	19 (26%)
3	EDO	A	1102	-	3,3,3	0.28	0	2,2,2	0.28	0
3	EDO	B	1102	-	3,3,3	0.25	0	2,2,2	0.50	0

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	A1DJZ	A	1101	-	-	1/35/67/67	0/5/5/5
2	A1DJZ	B	1101	-	-	1/35/67/67	0/5/5/5
3	EDO	A	1102	-	-	1/1/1/1	-
3	EDO	B	1102	-	-	1/1/1/1	-

All (23) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	1101	A1DJZ	C24-N20	-11.98	1.23	1.47
2	A	1101	A1DJZ	C24-N20	-11.84	1.23	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	1101	A1DJZ	C07-N09	10.27	1.45	1.32
2	A	1101	A1DJZ	C07-N09	10.06	1.45	1.32
2	B	1101	A1DJZ	C22-C16	-9.24	1.44	1.54
2	A	1101	A1DJZ	C22-C16	-9.04	1.44	1.54
2	B	1101	A1DJZ	C18-C16	-8.80	1.44	1.54
2	A	1101	A1DJZ	C18-C16	-8.70	1.44	1.54
2	A	1101	A1DJZ	C17-N13	-6.15	1.29	1.34
2	B	1101	A1DJZ	C16-N15	6.00	1.54	1.48
2	A	1101	A1DJZ	C16-N15	5.91	1.53	1.48
2	B	1101	A1DJZ	C17-N13	-5.48	1.30	1.34
2	B	1101	A1DJZ	C14-N13	5.29	1.55	1.45
2	A	1101	A1DJZ	C14-N13	5.16	1.55	1.45
2	A	1101	A1DJZ	C47-N41	4.74	1.46	1.34
2	B	1101	A1DJZ	O42-C43	-4.62	1.40	1.48
2	B	1101	A1DJZ	C47-N41	4.61	1.46	1.34
2	A	1101	A1DJZ	O42-C43	-4.43	1.40	1.48
2	A	1101	A1DJZ	O42-C47	3.19	1.40	1.34
2	B	1101	A1DJZ	O42-C47	3.10	1.40	1.34
2	A	1101	A1DJZ	O30-C17	-2.31	1.18	1.22
2	B	1101	A1DJZ	O30-C17	-2.23	1.18	1.22
2	A	1101	A1DJZ	O08-C07	-2.02	1.18	1.23

All (36) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	B	1101	A1DJZ	C18-C16-N15	-7.53	107.52	112.87
2	A	1101	A1DJZ	C18-C16-N15	-6.83	108.02	112.87
2	B	1101	A1DJZ	C14-N15-C16	-6.56	105.88	111.64
2	A	1101	A1DJZ	C14-N15-C16	-6.27	106.14	111.64
2	A	1101	A1DJZ	C18-C19-N20	4.82	116.07	111.16
2	B	1101	A1DJZ	O42-C47-N41	4.78	117.85	110.03
2	B	1101	A1DJZ	C18-C19-N20	4.61	115.86	111.16
2	A	1101	A1DJZ	O42-C47-N41	4.28	117.03	110.03
2	B	1101	A1DJZ	C14-N13-C17	-3.90	109.59	113.53
2	A	1101	A1DJZ	C14-N13-C17	-3.54	109.96	113.53
2	A	1101	A1DJZ	C16-N15-C23	3.06	131.38	127.02
2	B	1101	A1DJZ	C16-N15-C23	3.00	131.30	127.02
2	A	1101	A1DJZ	C22-C16-C17	2.89	116.39	108.61
2	B	1101	A1DJZ	C22-C16-C17	2.87	116.34	108.61
2	B	1101	A1DJZ	C19-C18-C16	2.83	115.45	113.05
2	B	1101	A1DJZ	C22-C21-N20	2.74	113.95	111.16
2	A	1101	A1DJZ	C22-C16-N15	2.62	114.73	112.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	B	1101	A1DJZ	C22-C16-N15	2.62	114.73	112.87
2	A	1101	A1DJZ	C35-C33-C32	-2.62	108.97	113.40
2	A	1101	A1DJZ	O42-C47-O48	-2.57	121.07	125.64
2	B	1101	A1DJZ	O42-C47-O48	-2.50	121.19	125.64
2	B	1101	A1DJZ	O48-C47-N41	-2.38	120.95	124.86
2	A	1101	A1DJZ	C12-N13-C14	2.38	126.06	121.65
2	A	1101	A1DJZ	C18-C16-C17	-2.34	102.31	108.61
2	B	1101	A1DJZ	O34-C31-C32	-2.34	105.28	109.88
2	A	1101	A1DJZ	C03-C02-C01	-2.30	120.21	123.76
2	A	1101	A1DJZ	C06-C01-C02	2.25	120.48	116.62
2	A	1101	A1DJZ	C22-C21-N20	2.23	113.43	111.16
2	B	1101	A1DJZ	C03-C02-C01	-2.22	120.34	123.76
2	B	1101	A1DJZ	C17-C16-N15	2.20	105.14	101.66
2	B	1101	A1DJZ	C12-N13-C14	2.16	125.65	121.65
2	B	1101	A1DJZ	C18-C16-C17	-2.12	102.89	108.61
2	A	1101	A1DJZ	C17-C16-N15	2.10	104.98	101.66
2	B	1101	A1DJZ	C06-C01-C02	2.04	120.14	116.62
2	B	1101	A1DJZ	C14-N15-C23	2.04	122.09	118.74
2	A	1101	A1DJZ	C14-N15-C23	2.03	122.06	118.74

There are no chirality outliers.

All (4) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	1102	EDO	O1-C1-C2-O2
3	B	1102	EDO	O1-C1-C2-O2
2	B	1101	A1DJZ	C02-C01-C12-N13
2	A	1101	A1DJZ	C02-C01-C12-N13

There are no ring outliers.

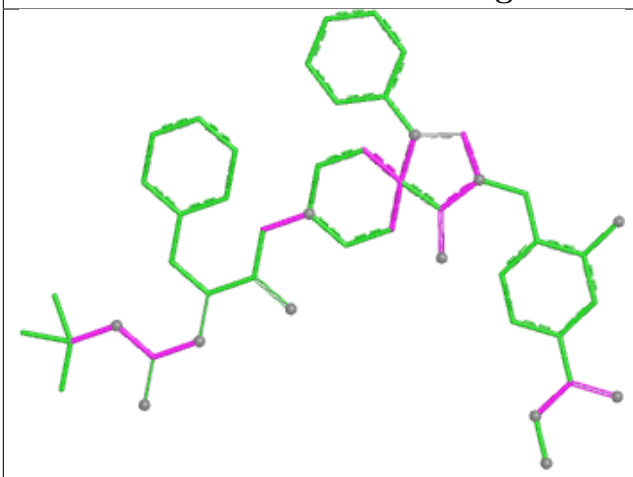
1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	1102	EDO	1	0

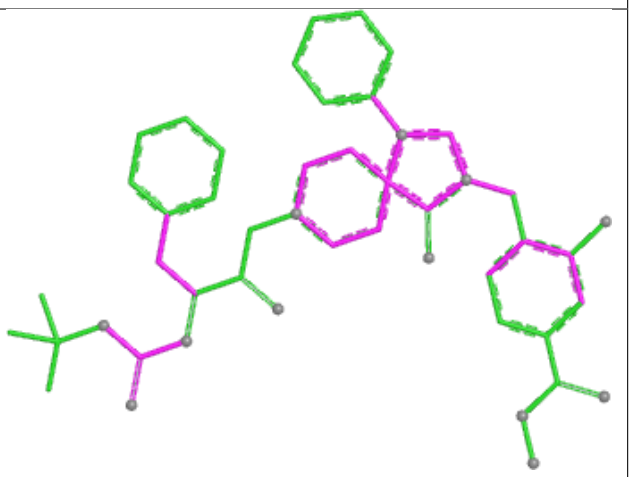
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. 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 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.

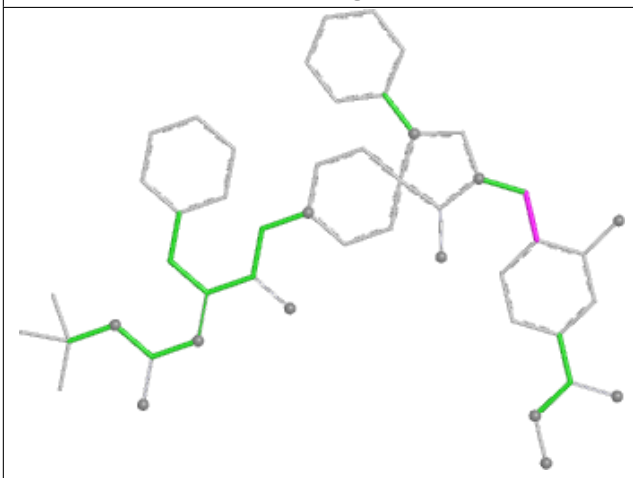
Ligand A1DJZ A 1101



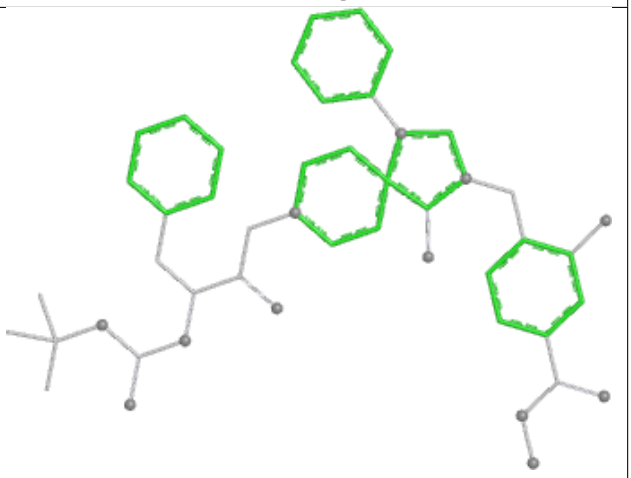
Bond lengths



Bond angles

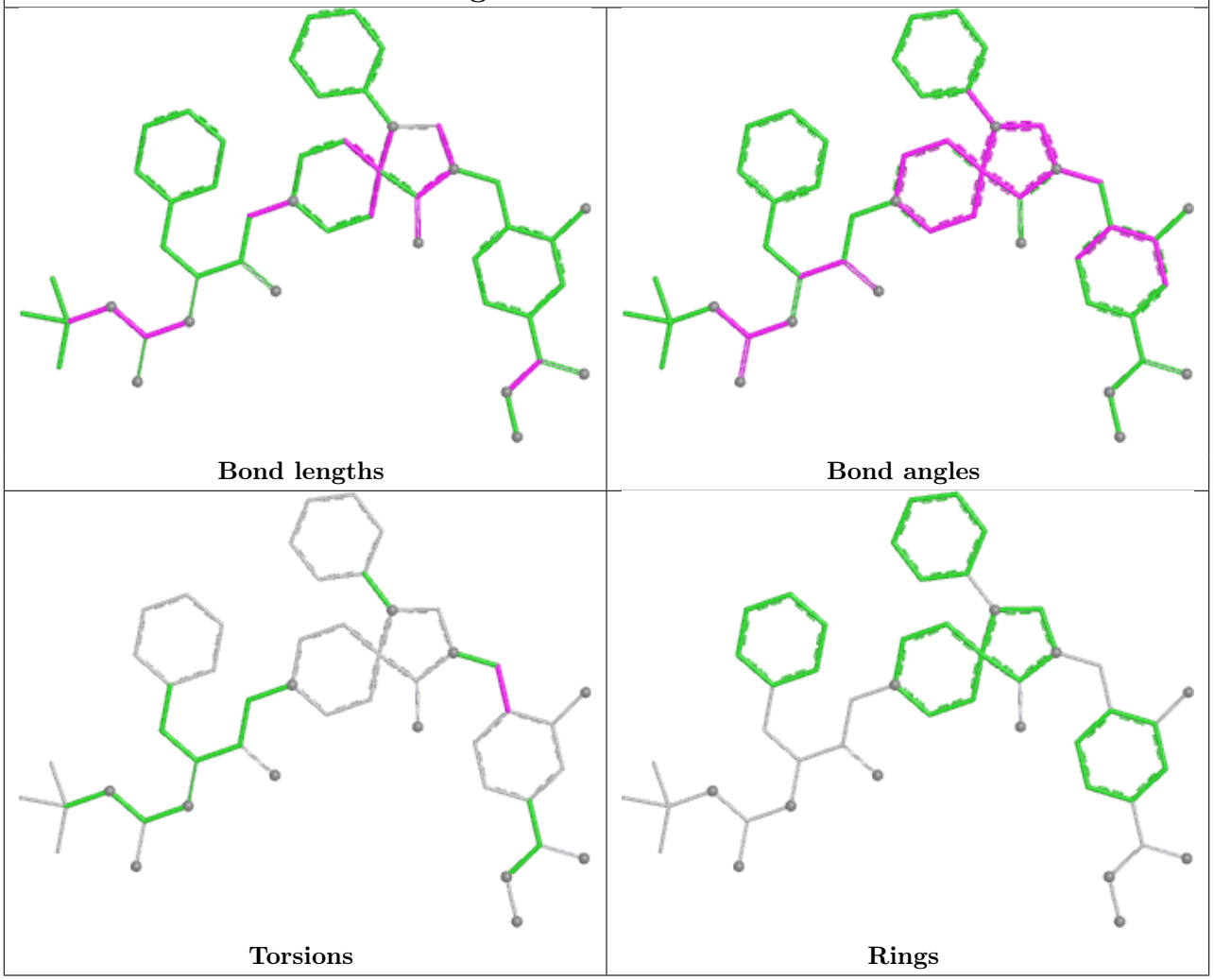


Torsions



Rings

Ligand A1DJZ B 1101



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	349/1081 (32%)	-1.60	0	100	100	6, 11, 23, 33	1 (0%)
1	B	349/1081 (32%)	-1.59	0	100	100	7, 12, 23, 38	0
All	All	698/2162 (32%)	-1.59	0	100	100	6, 11, 23, 38	1 (0%)

There are no RSRZ outliers to report.

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

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

6.3 Carbohydrates

There are no oligosaccharides in this entry.

6.4 Ligands

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
3	EDO	B	1102	4/4	0.99	0.04	2,10,14,17	0
2	A1DJZ	B	1101	48/48	1.00	0.02	5,12,25,44	0
3	EDO	A	1102	4/4	1.00	0.04	1,8,23,23	0
2	A1DJZ	A	1101	48/48	1.00	0.02	5,14,25,41	0
4	ZN	A	1103	1/1	1.00	0.00	8,8,8,8	0
4	ZN	B	1103	1/1	1.00	0.00	8,8,8,8	0
5	K	A	1104	1/1	1.00	0.01	4,4,4,4	0

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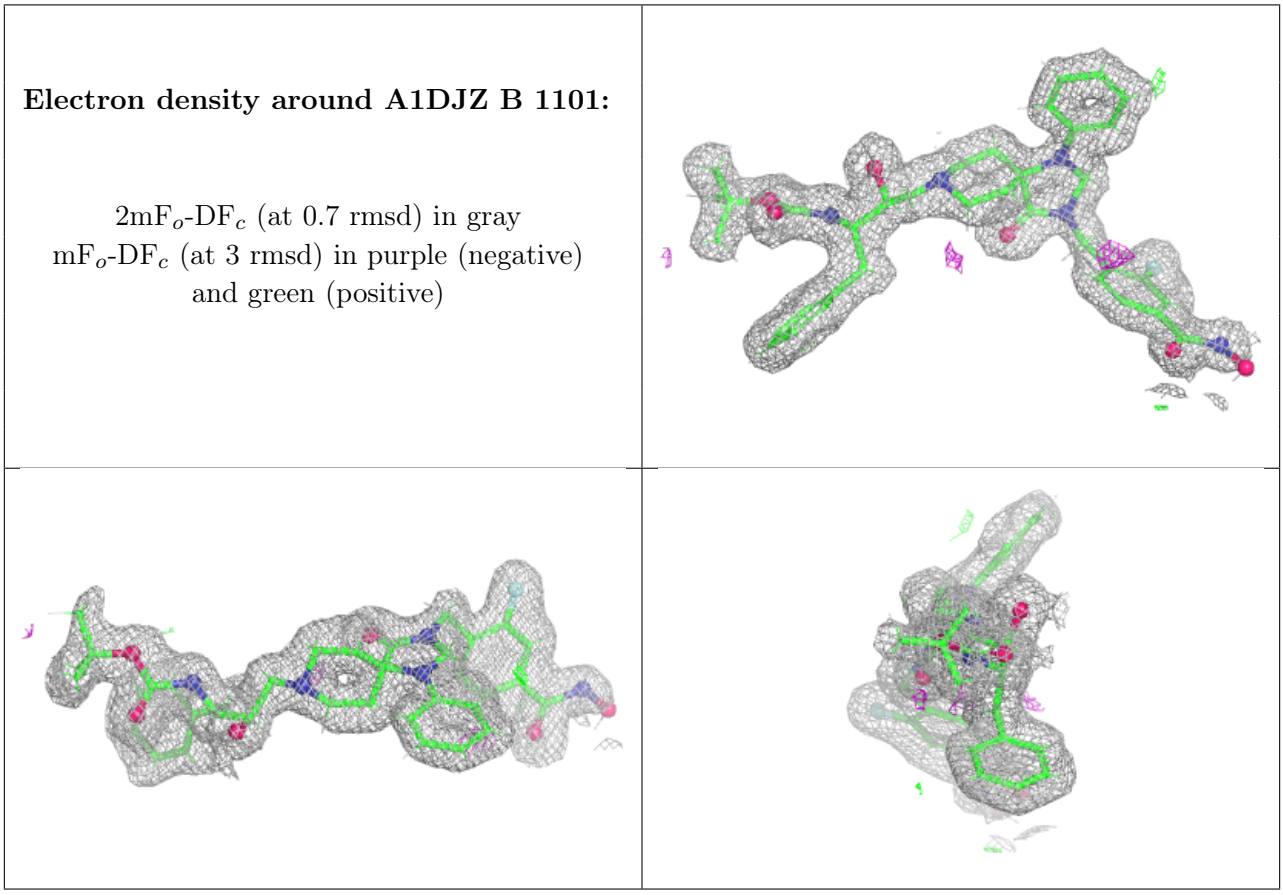
Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
5	K	A	1105	1/1	1.00	0.01	5,5,5,5	0
5	K	B	1104	1/1	1.00	0.01	4,4,4,4	0
5	K	B	1105	1/1	1.00	0.01	5,5,5,5	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.

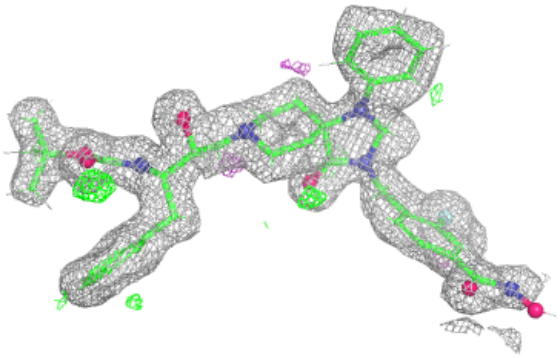
Electron density around A1DJZ B 1101:

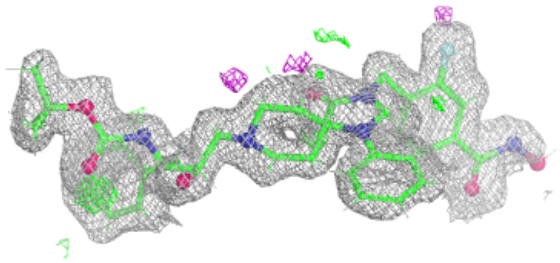
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

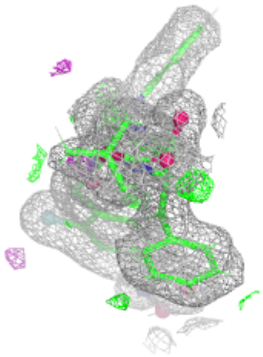


Electron density around A1DJZ A 1101:

$2mF_o$-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.