Full wwPDB X-ray Structure Validation Report (i)

Jun 24, 2024 – 04:37 PM EDT

PDB ID	:	6TKS
Title	:	Tankyrase 2 in complex with an inhibitor (OM-1720)
Authors	:	Sowa, S.T.; Lehtio, L.
Deposited on	:	2019-11-28
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 (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:

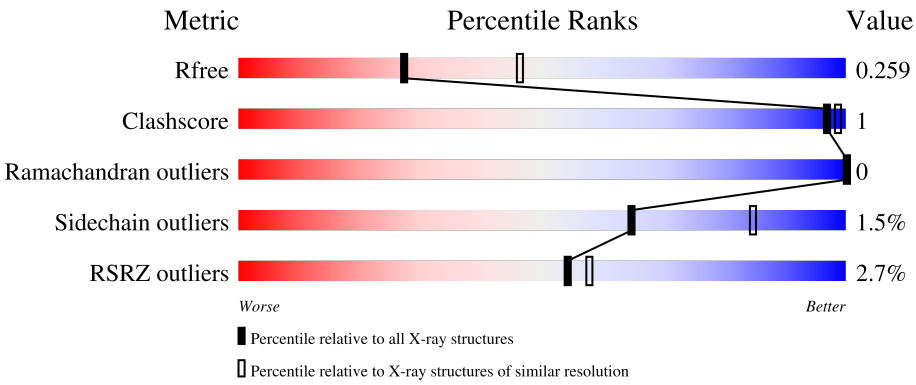
MolProbity	:	4.02b-467
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	1.20.1
EDS	:	2.37.1
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.37.1

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 2.50 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 <=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	AAA	240	% 81% • 15%
1	BBB	240	4% 83% • 13%

2 Entry composition (i)

There are 4 unique types of molecules in this entry. The entry contains 6619 atoms, of which 3216 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 Tankyrase-2.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
			Total	C	H	N	O	S			
1	AAA	203	3215	1031	1581	298	294	11	100	1	0
1	BBB	208	3241	1040	1587	302	302	10	105	0	0

There are 46 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
AAA	923	MET	-	initiating methionine	UNP Q9H2K2
AAA	924	HIS	-	expression tag	UNP Q9H2K2
AAA	925	HIS	-	expression tag	UNP Q9H2K2
AAA	926	HIS	-	expression tag	UNP Q9H2K2
AAA	927	HIS	-	expression tag	UNP Q9H2K2
AAA	928	HIS	-	expression tag	UNP Q9H2K2
AAA	929	HIS	-	expression tag	UNP Q9H2K2
AAA	930	SER	-	expression tag	UNP Q9H2K2
AAA	931	SER	-	expression tag	UNP Q9H2K2
AAA	932	GLY	-	expression tag	UNP Q9H2K2
AAA	933	VAL	-	expression tag	UNP Q9H2K2
AAA	934	ASP	-	expression tag	UNP Q9H2K2
AAA	935	LEU	-	expression tag	UNP Q9H2K2
AAA	936	GLY	-	expression tag	UNP Q9H2K2
AAA	937	THR	-	expression tag	UNP Q9H2K2
AAA	938	GLU	-	expression tag	UNP Q9H2K2
AAA	939	ASN	-	expression tag	UNP Q9H2K2
AAA	940	LEU	-	expression tag	UNP Q9H2K2
AAA	941	TYR	-	expression tag	UNP Q9H2K2
AAA	942	PHE	-	expression tag	UNP Q9H2K2
AAA	943	GLN	-	expression tag	UNP Q9H2K2
AAA	944	SER	-	expression tag	UNP Q9H2K2
AAA	945	MET	-	expression tag	UNP Q9H2K2
BBB	923	MET	-	initiating methionine	UNP Q9H2K2
BBB	924	HIS	-	expression tag	UNP Q9H2K2

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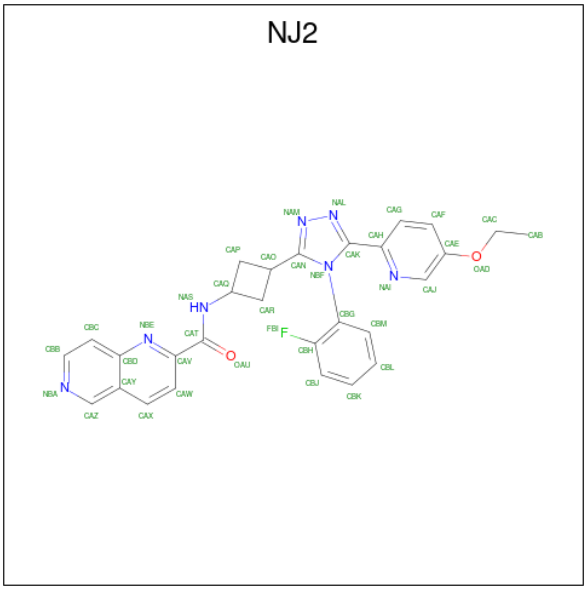
Chain	Residue	Modelled	Actual	Comment	Reference
BBB	925	HIS	-	expression tag	UNP Q9H2K2
BBB	926	HIS	-	expression tag	UNP Q9H2K2
BBB	927	HIS	-	expression tag	UNP Q9H2K2
BBB	928	HIS	-	expression tag	UNP Q9H2K2
BBB	929	HIS	-	expression tag	UNP Q9H2K2
BBB	930	SER	-	expression tag	UNP Q9H2K2
BBB	931	SER	-	expression tag	UNP Q9H2K2
BBB	932	GLY	-	expression tag	UNP Q9H2K2
BBB	933	VAL	-	expression tag	UNP Q9H2K2
BBB	934	ASP	-	expression tag	UNP Q9H2K2
BBB	935	LEU	-	expression tag	UNP Q9H2K2
BBB	936	GLY	-	expression tag	UNP Q9H2K2
BBB	937	THR	-	expression tag	UNP Q9H2K2
BBB	938	GLU	-	expression tag	UNP Q9H2K2
BBB	939	ASN	-	expression tag	UNP Q9H2K2
BBB	940	LEU	-	expression tag	UNP Q9H2K2
BBB	941	TYR	-	expression tag	UNP Q9H2K2
BBB	942	PHE	-	expression tag	UNP Q9H2K2
BBB	943	GLN	-	expression tag	UNP Q9H2K2
BBB	944	SER	-	expression tag	UNP Q9H2K2
BBB	945	MET	-	expression tag	UNP Q9H2K2

- Molecule 2 is {N}-[3-[5-(5-ethoxypyridin-2-yl)-4-(2-fluorophenyl)-1,2,4-triazol-3-yl]cyclobutyl]-1,6-naphthyridine-2-carboxamide (three-letter code: NJ2) (formula: $C_{28}H_{24}FN_7O_2$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
			Total	C	F	H	N	O		
2	AAA	1	62	28	1	24	7	2	0	0
2	BBB	1	62	28	1	24	7	2	0	0

- Molecule 3 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	Zn		
3	AAA	1	1	1	0	0
3	BBB	1	1	1	0	0

- Molecule 4 is water.

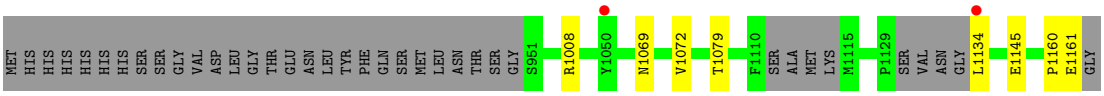
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	O		
4	AAA	18	18	18	0	0
4	BBB	19	19	19	0	0

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.

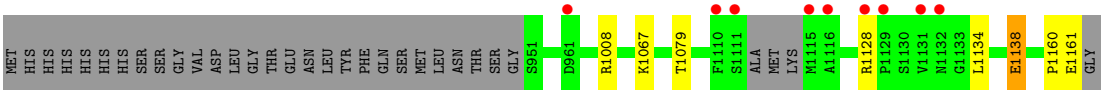
• Molecule 1: Tankyrase-2

Chain AAA:



• Molecule 1: Tankyrase-2

Chain BBB:



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α, β, γ	41.60Å 76.42Å 148.19Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	41.52 – 2.50 41.48 – 2.50	Depositor EDS
% Data completeness (in resolution range)	98.7 (41.52-2.50) 98.7 (41.48-2.50)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.97 (at 2.51Å)	Xtriage
Refinement program	REFMAC 5.8.0257	Depositor
R, R_{free}	0.214 , 0.259 0.219 , 0.259	Depositor DCC
R_{free} test set	843 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å^2)	50.4	Xtriage
Anisotropy	0.720	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.39 , 34.0	EDS
L-test for twinning[2]	$< \|L\| > = 0.51$, $< L^2 > = 0.35$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.95	EDS
Total number of atoms	6619	wwPDB-VP
Average B, all atoms (Å^2)	58.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 18.01% 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 (i)

5.1 Standard geometry (i)

Bond lengths and bond angles in the following residue types are not validated in this section: ZN, NJ2

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	AAA	0.63	0/1679	0.73	0/2259
1	BBB	0.63	0/1697	0.74	0/2288
All	All	0.63	0/3376	0.74	0/4547

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	AAA	1634	1581	1559	3	0
1	BBB	1654	1587	1561	3	0
2	AAA	38	24	0	0	0
2	BBB	38	24	0	0	0
3	AAA	1	0	0	0	0
3	BBB	1	0	0	0	0
4	AAA	18	0	0	0	0
4	BBB	19	0	0	0	0
All	All	3403	3216	3120	6	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 1.

All (6) 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:BBB:1067:LYS:HE2	1:BBB:1138:GLU:OE1	2.07	0.53
1:AAA:1069:ASN:O	1:AAA:1072:VAL:HG22	2.11	0.50
1:BBB:1128:ARG:O	1:BBB:1134:LEU:HB2	2.13	0.49
1:AAA:1160:PRO:O	1:AAA:1161:GLU:CB	2.66	0.43
1:BBB:1160:PRO:O	1:BBB:1161:GLU:CB	2.69	0.40
1:AAA:1008:ARG:HD3	1:AAA:1145:GLU:HG3	2.02	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	AAA	198/240 (82%)	193 (98%)	5 (2%)	0	100	100
1	BBB	204/240 (85%)	197 (97%)	7 (3%)	0	100	100
All	All	402/480 (84%)	390 (97%)	12 (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	AAA	172/204 (84%)	170 (99%)	2 (1%)	71	88

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	BBB	173/204 (85%)	170 (98%)	3 (2%)	60 82
All	All	345/408 (85%)	340 (99%)	5 (1%)	65 86

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

Mol	Chain	Res	Type
1	AAA	1079	THR
1	AAA	1134	LEU
1	BBB	1008	ARG
1	BBB	1079	THR
1	BBB	1138	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 monosaccharides in this entry.

5.6 Ligand geometry (i)

Of 4 ligands modelled in this entry, 2 are monoatomic - leaving 2 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	NJ2	AAA	1201	-	38,43,43	2.91	12 (31%)	46,61,61	1.71	11 (23%)
2	NJ2	BBB	1201	-	38,43,43	3.15	10 (26%)	46,61,61	1.67	11 (23%)

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	NJ2	AAA	1201	-	-	8/19/31/31	0/6/6/6
2	NJ2	BBB	1201	-	-	4/19/31/31	0/6/6/6

All (22) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	BBB	1201	NJ2	CBG-NBF	-11.32	1.32	1.45
2	AAA	1201	NJ2	CBG-NBF	-10.13	1.33	1.45
2	BBB	1201	NJ2	NAM-NAL	-8.98	1.20	1.37
2	BBB	1201	NJ2	CAH-CAK	-7.95	1.32	1.47
2	AAA	1201	NJ2	CAH-CAK	-7.68	1.33	1.47
2	AAA	1201	NJ2	NAM-NAL	-7.16	1.23	1.37
2	BBB	1201	NJ2	CAZ-NBA	5.20	1.41	1.32
2	AAA	1201	NJ2	CAZ-NBA	4.56	1.40	1.32
2	AAA	1201	NJ2	FBI-CBH	3.63	1.45	1.35
2	BBB	1201	NJ2	CAJ-NAI	3.63	1.41	1.34
2	AAA	1201	NJ2	CAV-CAT	-3.50	1.40	1.50
2	BBB	1201	NJ2	CAN-NBF	-3.41	1.32	1.37
2	AAA	1201	NJ2	CAJ-NAI	3.23	1.41	1.34
2	BBB	1201	NJ2	CAR-CAO	-3.09	1.50	1.56
2	BBB	1201	NJ2	CAV-CAT	-3.08	1.42	1.50
2	AAA	1201	NJ2	CAN-NBF	-2.82	1.32	1.37
2	AAA	1201	NJ2	CAR-CAO	-2.65	1.51	1.56
2	AAA	1201	NJ2	CBC-CBB	2.64	1.40	1.36
2	BBB	1201	NJ2	CBB-NBA	2.58	1.41	1.33
2	BBB	1201	NJ2	CBC-CBB	2.45	1.39	1.36
2	AAA	1201	NJ2	CBB-NBA	2.22	1.40	1.33
2	AAA	1201	NJ2	CAY-CBD	-2.04	1.39	1.42

All (22) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	BBB	1201	NJ2	CAP-CAO-CAR	3.98	93.10	86.58
2	BBB	1201	NJ2	CAW-CAV-NBE	-3.91	118.49	123.38
2	AAA	1201	NJ2	CAV-NBE-CBD	3.79	123.29	117.56
2	AAA	1201	NJ2	CAW-CAV-NBE	-3.78	118.66	123.38
2	AAA	1201	NJ2	CAR-CAQ-NAS	-3.66	110.97	117.76
2	BBB	1201	NJ2	CAV-NBE-CBD	3.23	122.44	117.56
2	AAA	1201	NJ2	CAP-CAQ-NAS	-3.20	111.82	117.76
2	AAA	1201	NJ2	CBG-NBF-CAK	3.09	129.00	124.19
2	BBB	1201	NJ2	CAP-CAQ-NAS	-3.05	112.10	117.76
2	AAA	1201	NJ2	CBC-CBB-NBA	-3.05	119.58	123.80
2	AAA	1201	NJ2	CAP-CAO-CAR	3.01	91.51	86.58
2	BBB	1201	NJ2	CAE-CAJ-NAI	-2.96	119.01	122.67
2	BBB	1201	NJ2	CAR-CAQ-NAS	-2.81	112.55	117.76
2	BBB	1201	NJ2	CBC-CBB-NBA	-2.75	119.99	123.80
2	AAA	1201	NJ2	CAJ-NAI-CAH	2.52	121.21	117.93
2	AAA	1201	NJ2	CAK-CAH-NAI	2.49	120.90	116.30
2	BBB	1201	NJ2	CAK-CAH-NAI	2.49	120.89	116.30
2	BBB	1201	NJ2	CAR-CAO-CAN	-2.26	111.22	119.15
2	AAA	1201	NJ2	CAE-CAJ-NAI	-2.25	119.89	122.67
2	BBB	1201	NJ2	CAJ-NAI-CAH	2.20	120.79	117.93
2	BBB	1201	NJ2	OAD-CAC-CAB	-2.09	101.53	108.04
2	AAA	1201	NJ2	CAR-CAO-CAN	-2.09	111.81	119.15

There are no chirality outliers.

All (12) torsion outliers are listed below:

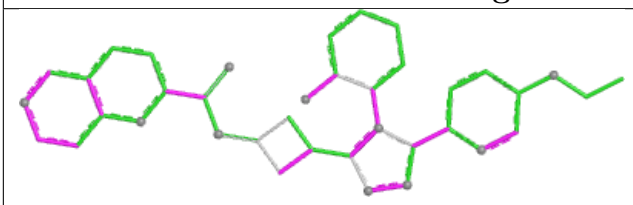
Mol	Chain	Res	Type	Atoms
2	AAA	1201	NJ2	NAI-CAH-CAK-NBF
2	AAA	1201	NJ2	CAG-CAH-CAK-NAL
2	AAA	1201	NJ2	NAI-CAH-CAK-NAL
2	BBB	1201	NJ2	NAI-CAH-CAK-NBF
2	BBB	1201	NJ2	CAG-CAH-CAK-NAL
2	BBB	1201	NJ2	NAI-CAH-CAK-NAL
2	AAA	1201	NJ2	CAJ-CAE-OAD-CAC
2	AAA	1201	NJ2	CAB-CAC-OAD-CAE
2	AAA	1201	NJ2	CAF-CAE-OAD-CAC
2	AAA	1201	NJ2	CAG-CAH-CAK-NBF
2	BBB	1201	NJ2	CAG-CAH-CAK-NBF
2	AAA	1201	NJ2	CAP-CAQ-NAS-CAT

There are no ring outliers.

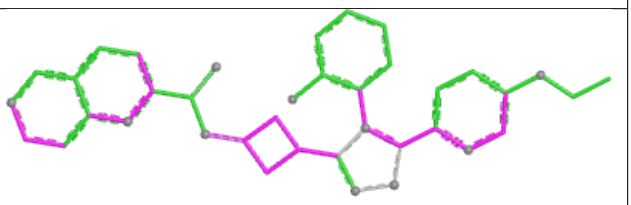
No monomer is involved in short contacts.

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 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.

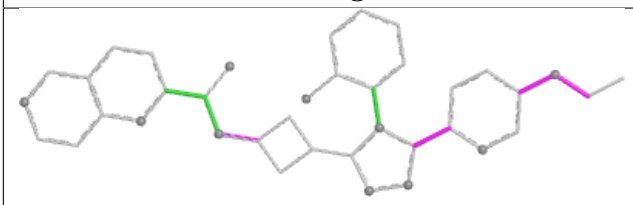
Ligand NJ2 AAA 1201



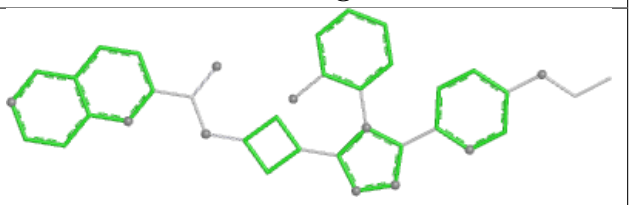
Bond lengths



Bond angles

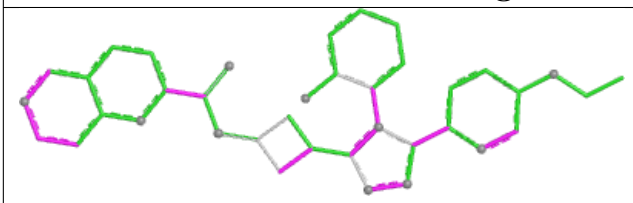


Torsions

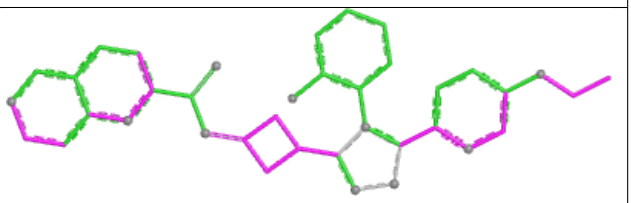


Rings

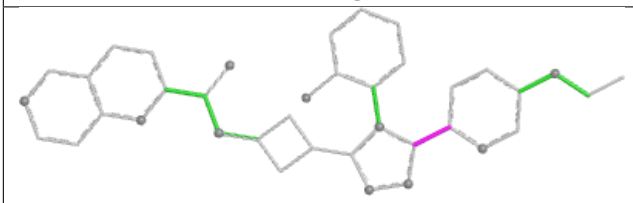
Ligand NJ2 BBB 1201



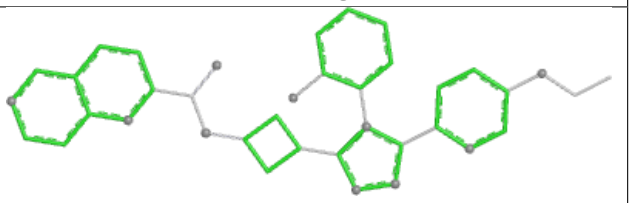
Bond lengths



Bond angles



Torsions



Rings

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	AAA	203/240 (84%)	0.29	2 (0%)	82	84	42, 56, 87, 109	0
1	BBB	208/240 (86%)	0.37	9 (4%)	35	38	36, 53, 91, 127	0
All	All	411/480 (85%)	0.33	11 (2%)	54	58	36, 55, 89, 127	0

All (11) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	BBB	1131	VAL	5.7
1	BBB	1129	PRO	3.8
1	BBB	1132	ASN	3.8
1	BBB	1115	MET	3.7
1	AAA	1134	LEU	3.4
1	BBB	1110	PHE	2.7
1	BBB	1116	ALA	2.6
1	BBB	1111	SER	2.5
1	BBB	961	ASP	2.2
1	AAA	1050	TYR	2.1
1	BBB	1128	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)

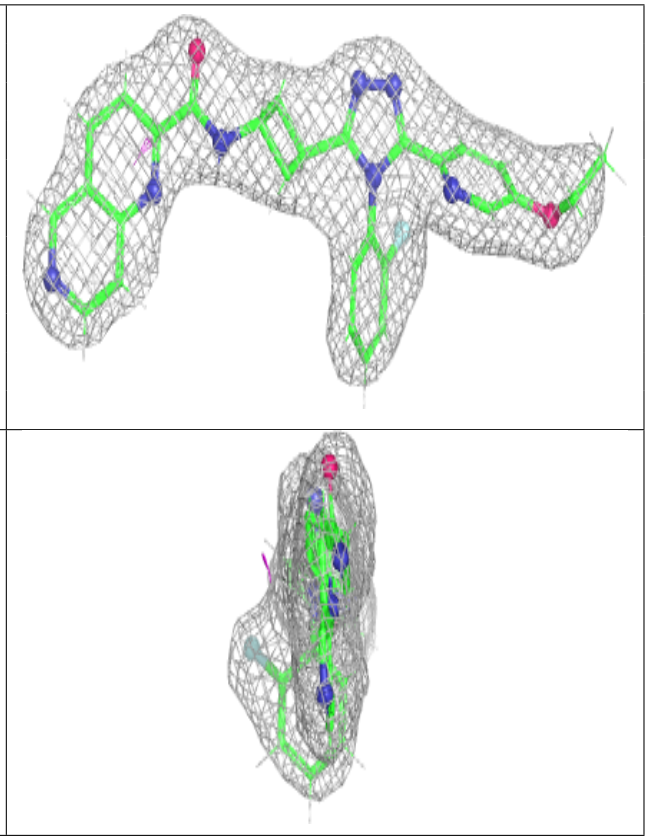
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists 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	NJ2	AAA	1201	38/38	0.97	0.17	43,51,68,71	0
2	NJ2	BBB	1201	38/38	0.97	0.16	44,48,58,60	0
3	ZN	AAA	1202	1/1	0.99	0.12	55,55,55,55	0
3	ZN	BBB	1202	1/1	1.00	0.11	48,48,48,48	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.

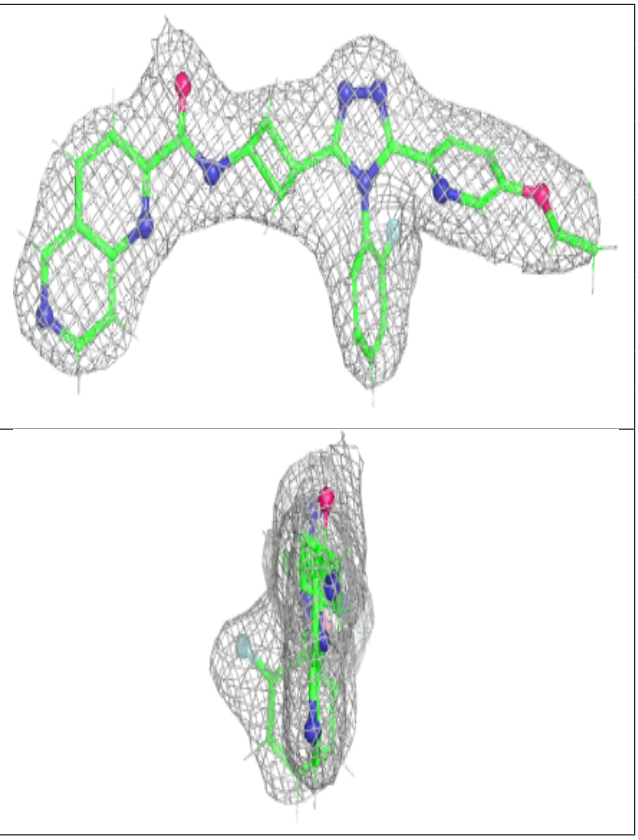
Electron density around NJ2 AAA 1201:

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 NJ2 BBB 1201:

$2mF_o$-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 (i)

There are no such residues in this entry.