wwPDB X-ray Structure Validation Summary Report (i)

May 1, 2025 – 12:08 AM JST

PDB ID	:	9JK1 / pdb_00009jk1
Title	:	Crystal structure of CDK12/Cyclin K in complex with covalent inhibitor YJZ5118
Authors	:	Huang, W.X.; Zhang, P.J.; Yang, J.Z.; Ding, K.
Deposited on	:	2024-09-14
Resolution	:	2.72 Å(reported)

This is a wwPDB X-ray Structure Validation Summary 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:

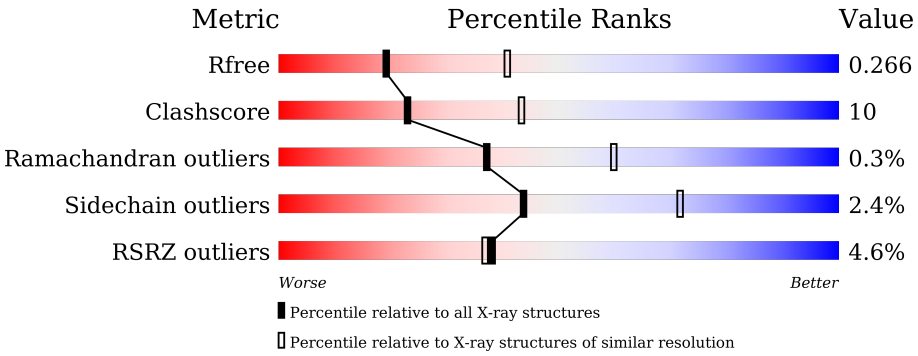
MolProbity	:	4-5-2 with Phenix2.0rc1
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	2.0rc1
EDS	:	3.0
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
CCP4	:	9.0.006 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.43.1

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 2.72 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}	164625	4050 (2.74-2.70)
Clashscore	180529	4439 (2.74-2.70)
Ramachandran outliers	177936	4374 (2.74-2.70)
Sidechain outliers	177891	4375 (2.74-2.70)
RSRZ outliers	164620	4050 (2.74-2.70)

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	340	6% 70% 20% • 9%
1	B	340	7% 66% 25% • 7%
2	C	269	% 71% 16% 13%
2	D	269	% 68% 18% • 12%

2 Entry composition (i)

There are 7 unique types of molecules in this entry. The entry contains 8709 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 Cyclin-dependent kinase 12.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	311	Total	C	N	O	P	S	0	0	0
			2406	1552	393	443	1	17			
1	B	315	Total	C	N	O	P	S	0	0	0
			2386	1539	387	442	1	17			

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	713	GLY	-	expression tag	UNP Q9NYV4
A	714	ALA	-	expression tag	UNP Q9NYV4
B	713	GLY	-	expression tag	UNP Q9NYV4
B	714	ALA	-	expression tag	UNP Q9NYV4

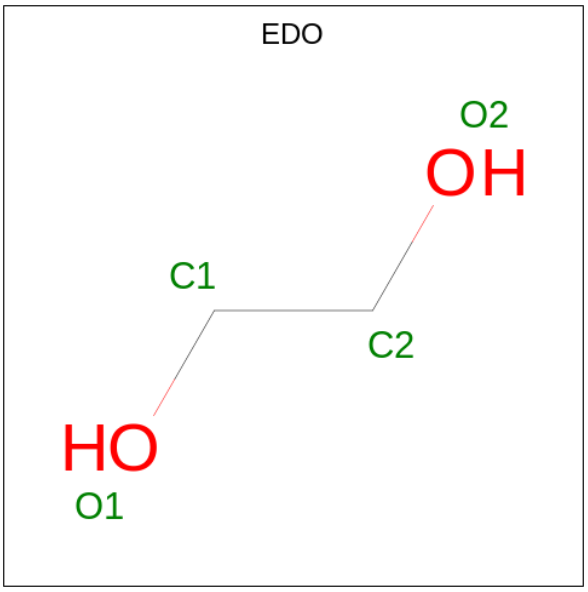
- Molecule 2 is a protein called Cyclin-K.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	D	238	Total	C	N	O	S	0	0	0
			1916	1253	306	346	11			
2	C	235	Total	C	N	O	S	0	0	0
			1888	1234	306	337	11			

There are 4 discrepancies between the modelled and reference sequences:

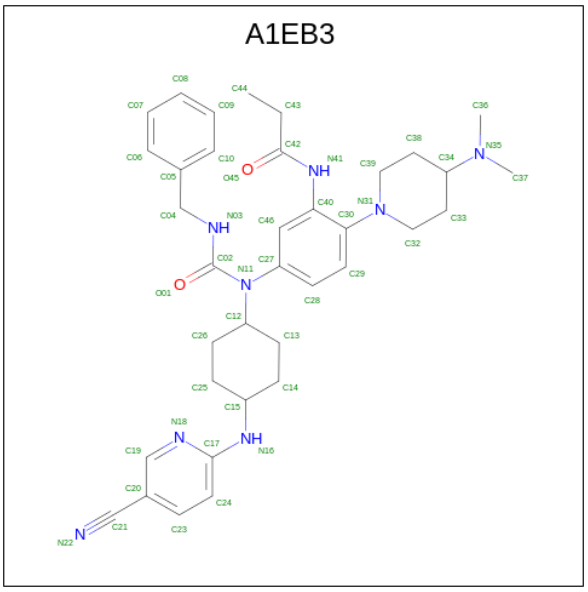
Chain	Residue	Modelled	Actual	Comment	Reference
D	-1	GLY	-	expression tag	UNP O75909
D	0	ALA	-	expression tag	UNP O75909
C	-1	GLY	-	expression tag	UNP O75909
C	0	ALA	-	expression tag	UNP O75909

- 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 O 4 2 2	0	0
3	D	1	Total C O 4 2 2	0	0

- Molecule 4 is N-[5-[[4-[(5-cyanopyridin-2-yl)amino]cyclohexyl]-[(phenylmethyl)carbamoyl]amino]-2-[4-(dimethylamino)piperidin-1-yl]phenyl]propanamide (CCD ID: A1EB3) (formula: $C_{36}H_{46}N_8O_2$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	1	Total C N O 46 36 8 2	0	0

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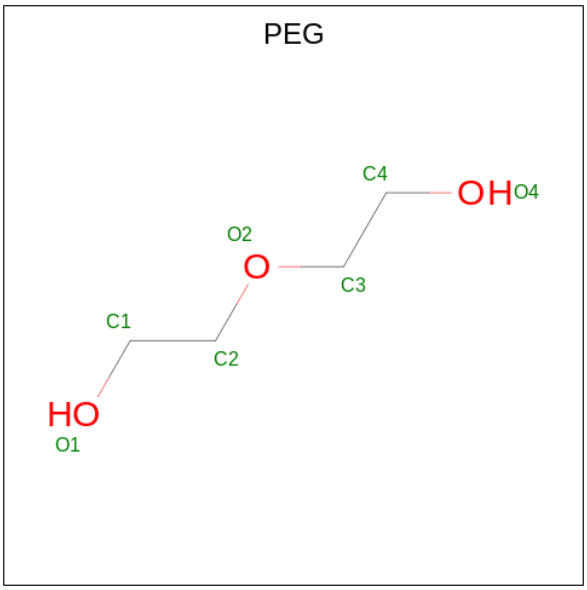
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	B	1	Total C N O 46 36 8 2	0	0

- Molecule 5 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	1	Total Mg 1 1	0	0

- Molecule 6 is DI(HYDROXYETHYL)ETHER (CCD ID: PEG) (formula: $C_4H_{10}O_3$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	C	1	Total C O 7 4 3	0	0

- Molecule 7 is water.

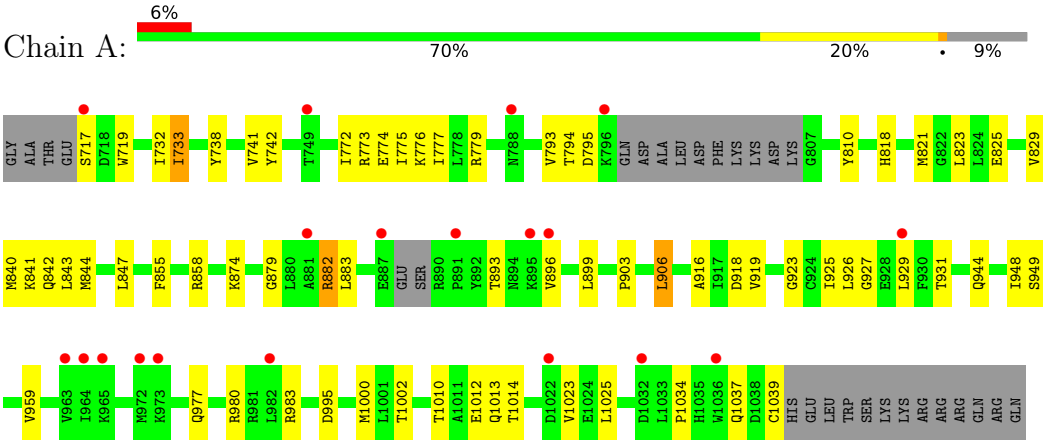
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	A	3	Total O 3 3	0	0
7	B	2	Total O 2 2	0	0

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.

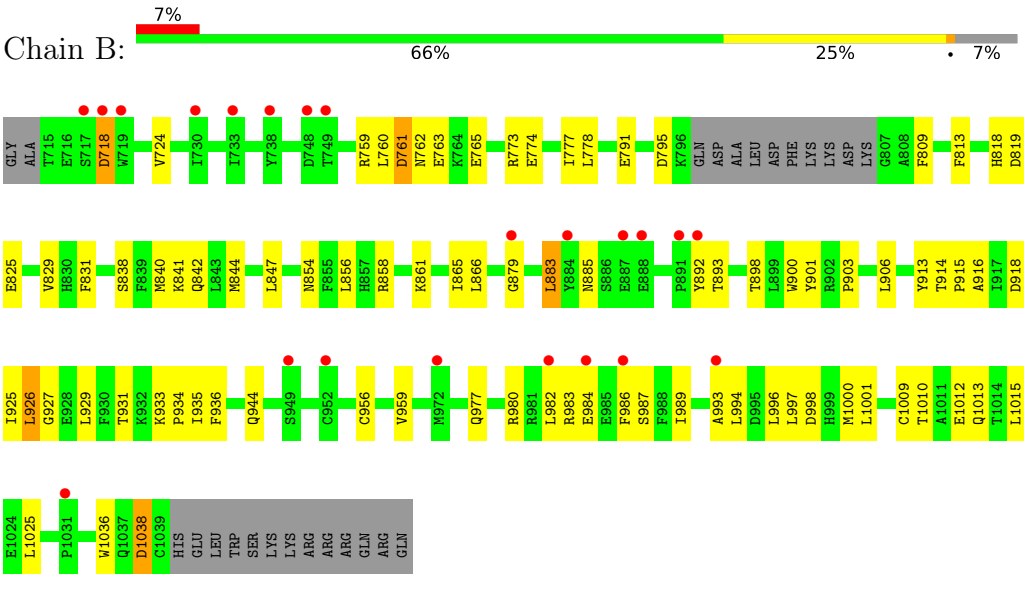
• Molecule 1: Cyclin-dependent kinase 12

Chain A:



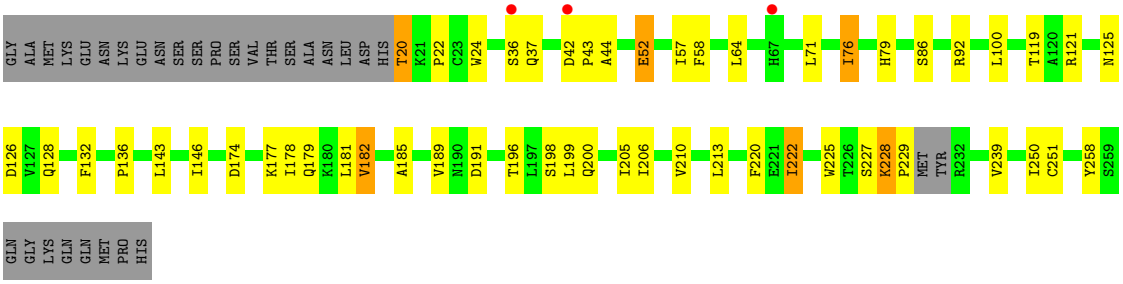
• Molecule 1: Cyclin-dependent kinase 12

Chain B:



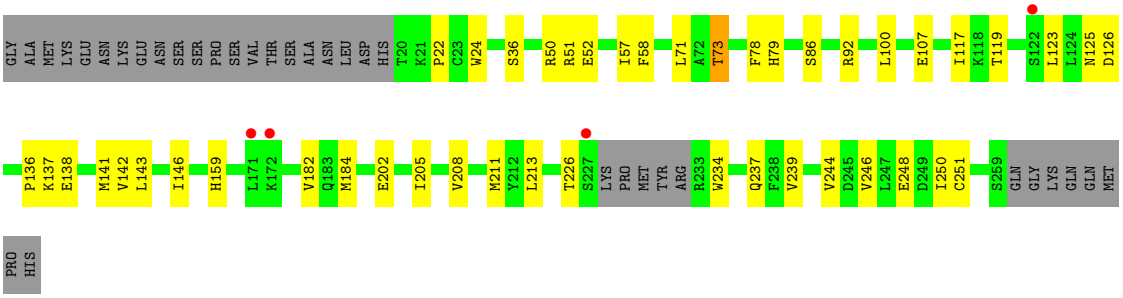
• Molecule 2: Cyclin-K

Chain D:



• Molecule 2: Cyclin-K

Chain C:



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α, β, γ	50.20Å 77.19Å 91.46Å 75.88° 85.63° 77.92°	Depositor
Resolution (Å)	29.56 – 2.72 29.56 – 2.72	Depositor EDS
% Data completeness (in resolution range)	97.5 (29.56-2.72) 97.4 (29.56-2.72)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.94 (at 2.72Å)	Xtriage
Refinement program	PHENIX 1.20.1_4487	Depositor
R, R_{free}	0.248 , 0.267 0.249 , 0.266	Depositor DCC
R_{free} test set	32938 reflections (5.87%)	wwPDB-VP
Wilson B-factor (Å^2)	61.5	Xtriage
Anisotropy	0.400	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.34 , 58.9	EDS
L-test for twinning[2]	$< \|L\| > = 0.48$, $< L^2 > = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.91	EDS
Total number of atoms	8709	wwPDB-VP
Average B, all atoms (Å^2)	68.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 10.02% 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: A1EB3, PEG, TPO, MG, EDO

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	0/2450	0.37	0/3327
1	B	0.21	0/2428	0.45	2/3304 (0.1%)
2	C	0.17	0/1940	0.34	0/2641
2	D	0.15	0/1969	0.34	0/2679
All	All	0.18	0/8787	0.38	2/11951 (0.0%)

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	765	GLU	N-CA-C	6.89	121.36	112.26
1	B	761	ASP	N-CA-C	-6.39	100.43	109.96

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	2406	0	2292	47	0
1	B	2386	0	2242	69	0
2	C	1888	0	1797	24	0
2	D	1916	0	1829	32	0
3	A	4	0	6	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	D	4	0	6	0	0
4	A	46	0	0	1	0
4	B	46	0	0	2	0
5	A	1	0	0	0	0
6	C	7	0	10	1	0
7	A	3	0	0	0	0
7	B	2	0	0	1	0
All	All	8709	0	8182	172	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 10.

The worst 5 of 172 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:760:LEU:HD23	1:B:809:PHE:CD2	1.61	1.34
1:B:760:LEU:CD2	1:B:809:PHE:CD2	2.45	0.99
2:D:228:LYS:HB3	2:D:229:PRO:HD2	1.43	0.97
1:B:760:LEU:CD2	1:B:809:PHE:CE2	2.51	0.93
1:A:956:CYS:HB3	1:A:977:GLN:HE22	1.34	0.89

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	304/340 (89%)	287 (94%)	17 (6%)	0	100 100
1	B	310/340 (91%)	289 (93%)	19 (6%)	2 (1%)	22 43
2	C	231/269 (86%)	227 (98%)	4 (2%)	0	100 100
2	D	234/269 (87%)	228 (97%)	5 (2%)	1 (0%)	30 53

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
All	All	1079/1218 (89%)	1031 (96%)	45 (4%)	3 (0%)	37 60

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	D	228	LYS
1	B	762	ASN
1	B	763	GLU

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	247/305 (81%)	242 (98%)	5 (2%)	50 76
1	B	238/305 (78%)	232 (98%)	6 (2%)	42 70
2	C	194/241 (80%)	189 (97%)	5 (3%)	41 69
2	D	199/241 (83%)	194 (98%)	5 (2%)	42 70
All	All	878/1092 (80%)	857 (98%)	21 (2%)	44 71

5 of 21 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	996	LEU
2	C	73	THR
2	C	202	GLU
2	C	182	VAL
2	C	51	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 17 such sidechains are listed below:

Mol	Chain	Res	Type
1	B	1013	GLN
2	C	170	GLN

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Mol	Chain	Res	Type
2	D	200	GLN
1	B	835	HIS
1	B	842	GLN

5.3.3 RNA (i)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains (i)

2 non-standard protein/DNA/RNA residues 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	$\#\|Z\| > 2$
1	TPO	A	893	1	8,10,11	1.07	0	10,14,16	1.65	1 (10%)
1	TPO	B	893	1	8,10,11	1.12	0	10,14,16	1.68	1 (10%)

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
1	TPO	A	893	1	-	1/9/11/13	-
1	TPO	B	893	1	-	1/9/11/13	-

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	893	TPO	P-OG1-CB	-4.67	109.09	123.21
1	A	893	TPO	P-OG1-CB	-4.51	109.59	123.21

There are no chirality outliers.

All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	A	893	TPO	CB-OG1-P-O3P
1	B	893	TPO	CB-OG1-P-O3P

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

Of 6 ligands modelled in this entry, 1 is monoatomic - leaving 5 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	$\#\|Z\| > 2$
4	A1EB3	B	1101	1	48,50,50	0.34	0	62,68,68	1.09	5 (8%)
4	A1EB3	A	1202	1	48,50,50	0.37	0	62,68,68	1.98	11 (17%)
3	EDO	D	301	-	3,3,3	0.46	0	2,2,2	0.34	0
6	PEG	C	301	-	6,6,6	0.35	0	5,5,5	0.22	0
3	EDO	A	1201	-	3,3,3	0.45	0	2,2,2	0.35	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
4	A1EB3	B	1101	1	-	11/37/57/57	0/5/5/5
4	A1EB3	A	1202	1	-	10/37/57/57	0/5/5/5

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	EDO	D	301	-	-	0/1/1/1	-
6	PEG	C	301	-	-	3/4/4/4	-
3	EDO	A	1201	-	-	0/1/1/1	-

There are no bond length outliers.

The worst 5 of 16 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A	1202	A1EB3	N03-C02-N11	6.41	126.25	115.56
4	A	1202	A1EB3	C04-N03-C02	6.27	126.50	120.84
4	A	1202	A1EB3	C05-C04-N03	-6.07	100.04	113.05
4	A	1202	A1EB3	C39-N31-C32	5.33	123.28	111.52
4	A	1202	A1EB3	C27-N11-C12	-4.97	113.01	119.25

There are no chirality outliers.

5 of 24 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	A	1202	A1EB3	O01-C02-N03-C04
4	A	1202	A1EB3	N11-C02-N03-C04
4	A	1202	A1EB3	C25-C15-N16-C17
4	A	1202	A1EB3	C24-C17-N16-C15
4	A	1202	A1EB3	C33-C34-N35-C36

There are no ring outliers.

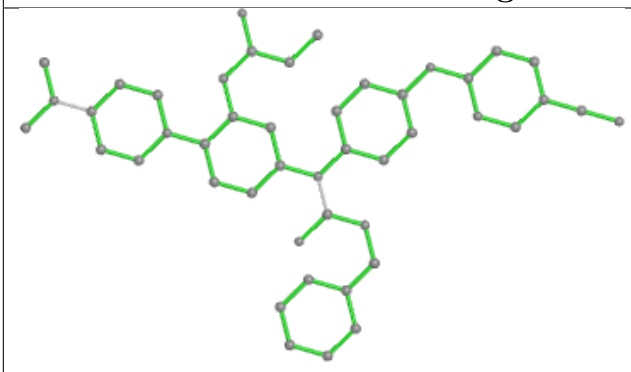
3 monomers are involved in 4 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	B	1101	A1EB3	2	0
4	A	1202	A1EB3	1	0
6	C	301	PEG	1	0

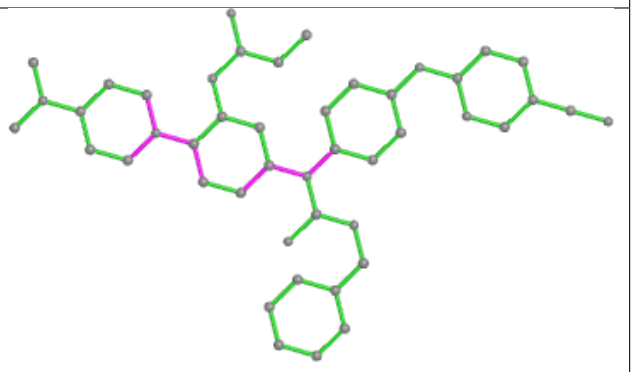
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

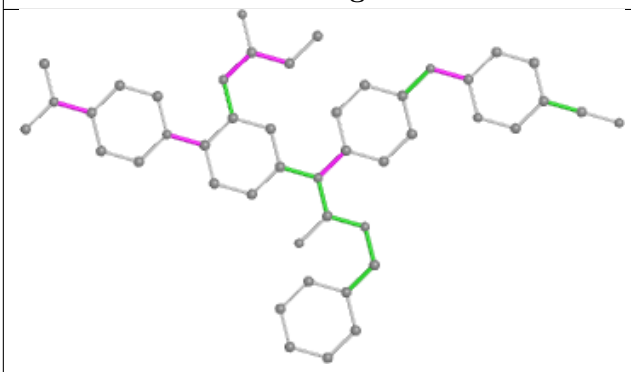
Ligand A1EB3 B 1101



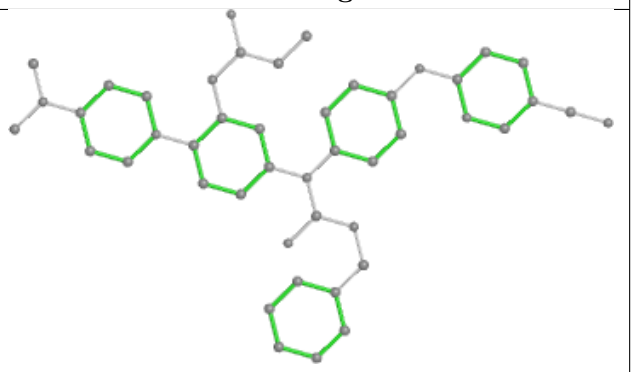
Bond lengths



Bond angles

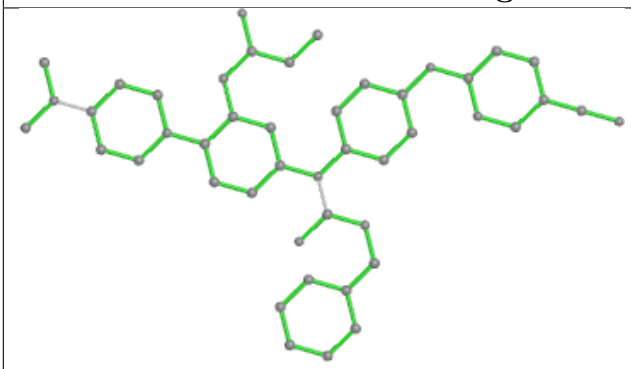


Torsions

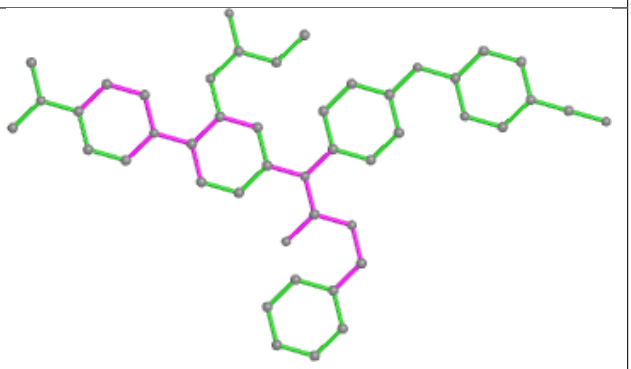


Rings

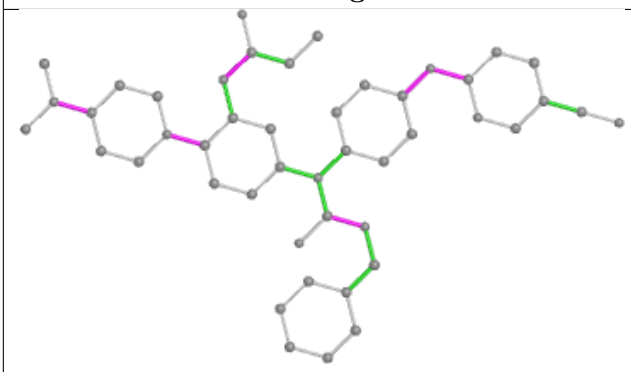
Ligand A1EB3 A 1202



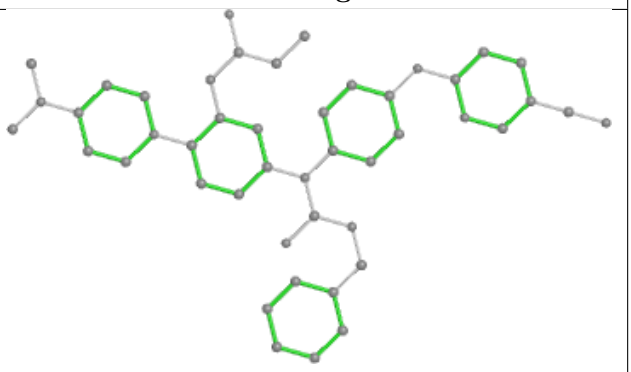
Bond lengths



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

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	310/340 (91%)	0.61	19 (6%)	28	27	45, 67, 96, 112	0
1	B	314/340 (92%)	0.96	25 (7%)	20	19	57, 81, 108, 122	0
2	C	235/269 (87%)	0.47	4 (1%)	69	69	42, 66, 90, 115	0
2	D	238/269 (88%)	0.22	3 (1%)	74	75	33, 52, 76, 92	0
All	All	1097/1218 (90%)	0.60	51 (4%)	38	37	33, 68, 98, 122	0

The worst 5 of 51 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	824	LEU	3.9
1	B	891	PRO	3.7
1	A	896	VAL	3.4
1	A	982	LEU	3.3
1	B	733	ILE	3.2

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

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
1	TPO	A	893	11/12	0.74	0.13	97,99,109,120	0
1	TPO	B	893	11/12	0.78	0.13	68,92,96,108	0

6.3 Carbohydrates

There are no monosaccharides in this entry.

6.4 Ligands (i)

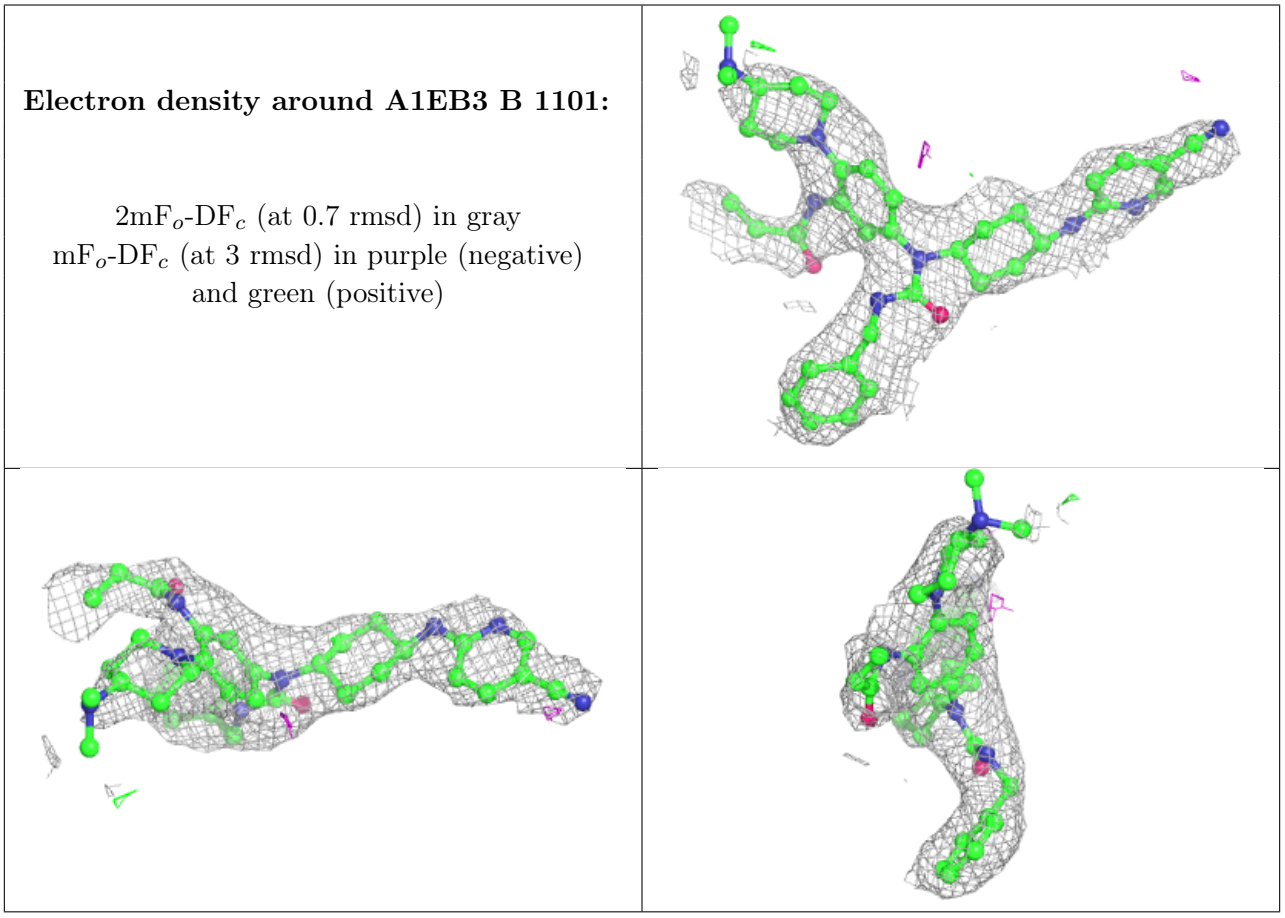
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' 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
3	EDO	A	1201	4/4	0.30	0.29	88,93,93,98	0
5	MG	A	1203	1/1	0.51	0.15	87,87,87,87	0
3	EDO	D	301	4/4	0.59	0.20	137,138,145,150	0
4	A1EB3	B	1101	46/46	0.79	0.16	59,79,103,107	0
6	PEG	C	301	7/7	0.79	0.14	89,89,89,89	0
4	A1EB3	A	1202	46/46	0.87	0.13	36,63,85,91	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.

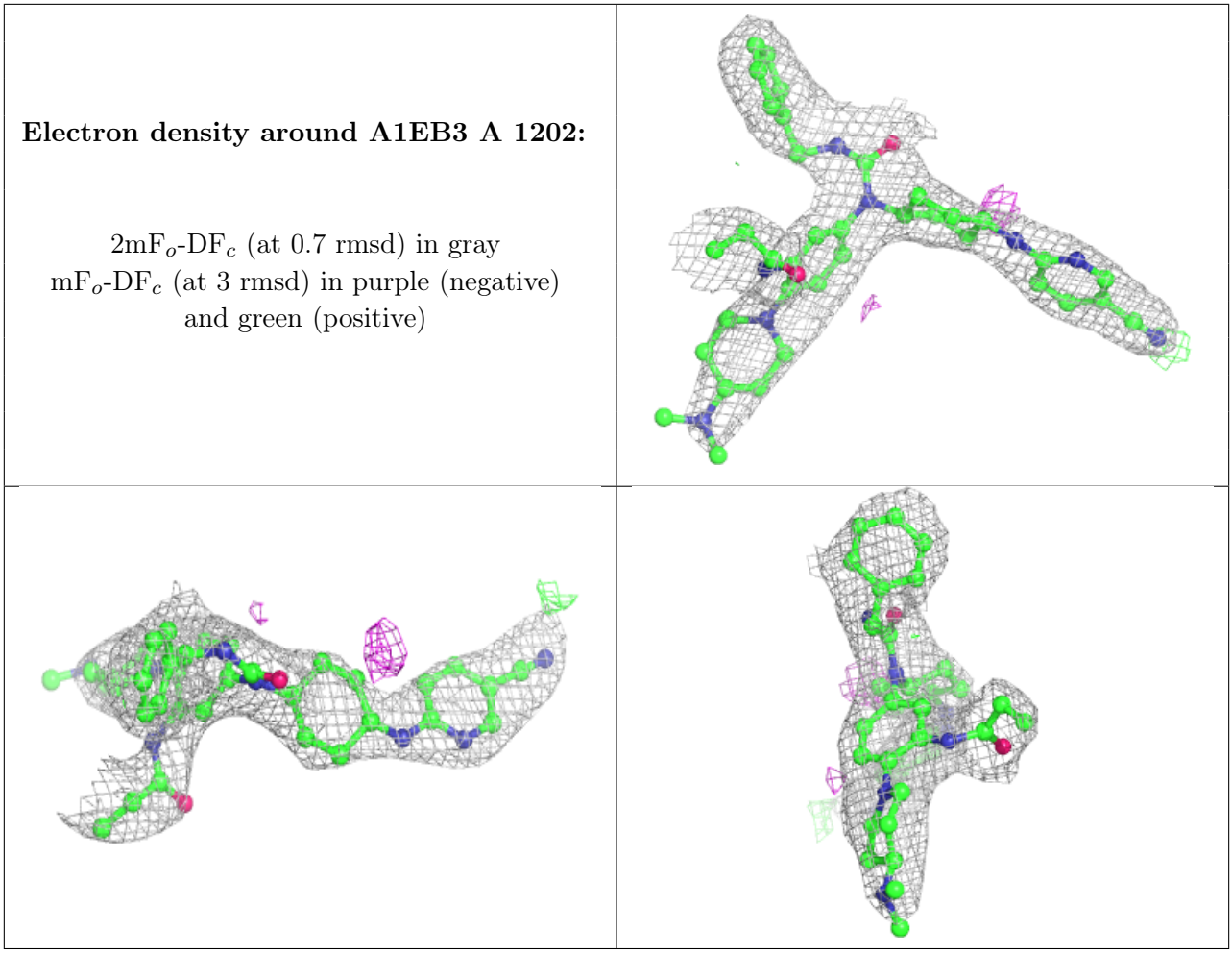
Electron density around A1EB3 B 1101:

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



Electron density around A1EB3 A 1202:

$2mF_o$-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.