



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 02:54 PM UTC

PDB ID : 6YA6 / pdb_00006ya6
Title : Minimal construct of Cdc7-Dbf4 bound to XL413
Authors : Dick, S.D.; Cherepanov, P.
Deposited on : 2020-03-11
Resolution : 1.44 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 Phenix2.0
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

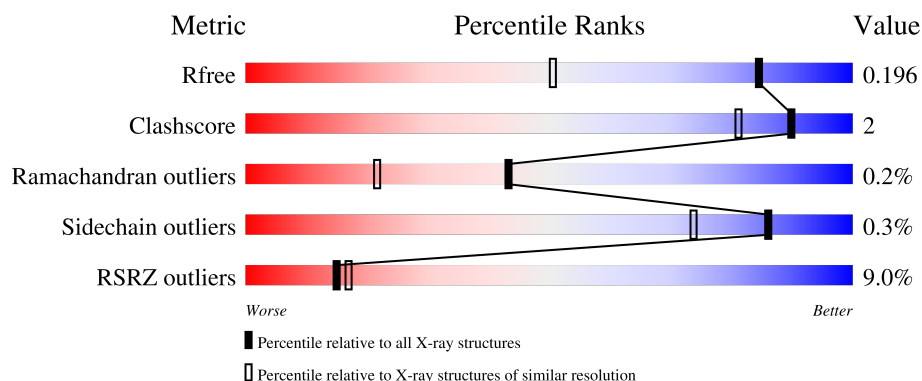
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.44 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	3234 (1.46-1.42)
Clashscore	190562	3289 (1.46-1.42)
Ramachandran outliers	187476	3248 (1.46-1.42)
Sidechain outliers	187428	3248 (1.46-1.42)
RSRZ outliers	180081	3234 (1.46-1.42)

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	359	6% 91%
2	B	144	12% 67% 29%

2 Entry composition

There are 9 unique types of molecules in this entry. The entry contains 4072 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 Cell division cycle 7-related protein kinase,Cell division cycle 7-related protein kinase,Cell division cycle 7-related protein kinase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	344	Total	C	N	O	S	0	4	0
			2719	1737	469	496	17			

There are 5 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	36	MET	-	initiating methionine	UNP O00311
A	468	ALA	-	linker	UNP O00311
A	469	GLY	-	linker	UNP O00311
A	470	ALA	-	linker	UNP O00311
A	471	GLY	-	linker	UNP O00311

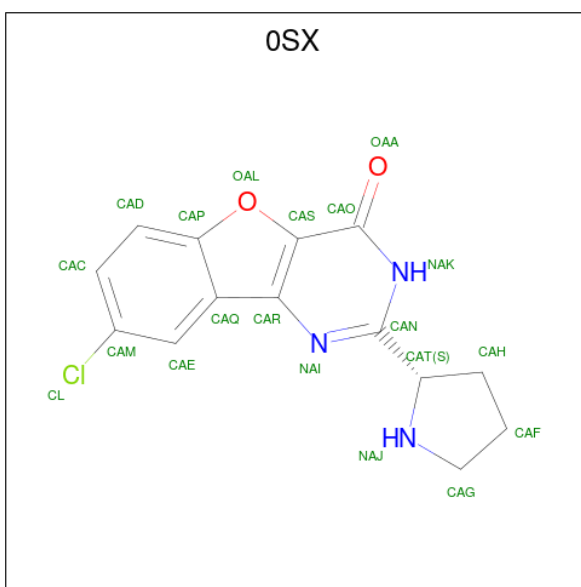
- Molecule 2 is a protein called Protein DBF4 homolog A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	102	Total	C	N	O	P S	0	0	0
			850	542	138	163	1 6			

There are 3 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	207	GLY	-	expression tag	UNP Q9UBU7
B	208	PRO	-	expression tag	UNP Q9UBU7
B	209	GLY	-	expression tag	UNP Q9UBU7

- Molecule 3 is 8-chloro-2-[(2S)-pyrrolidin-2-yl][1]benzofuro[3,2-d]pyrimidin-4(3H)-one (CCD ID: 0SX) (formula: C₁₄H₁₂ClN₃O₂) (labeled as "Ligand of Interest" by depositor).

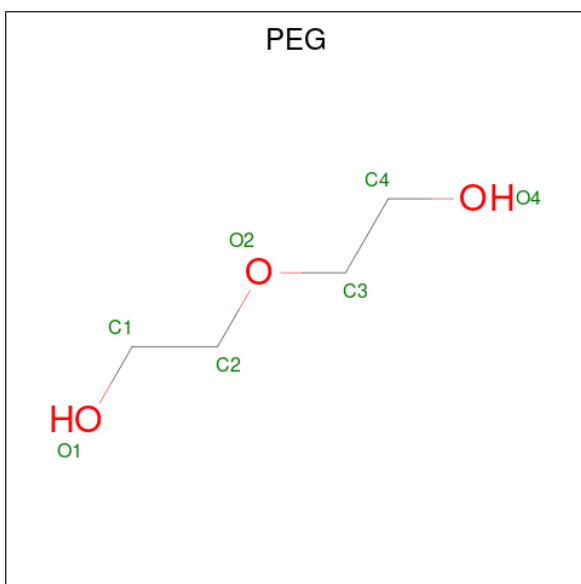


Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	A	1	Total	C	Cl	N	O	0	0
			20	14	1	3	2		

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

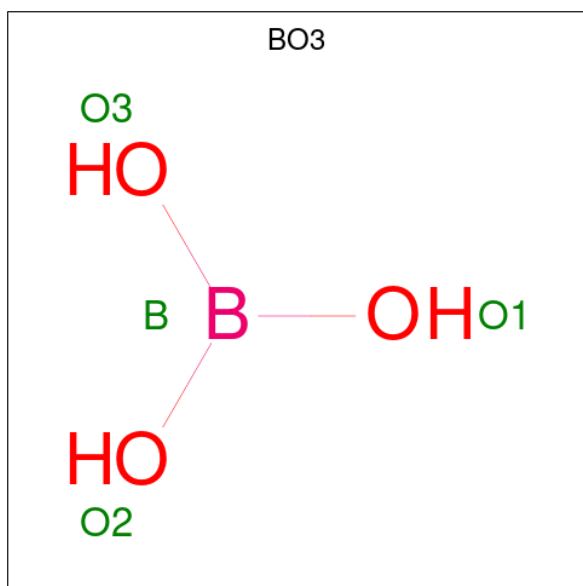
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	1	Total	Zn	0	0
			1	1		
4	B	1	Total	Zn	0	0
			1	1		

- Molecule 5 is DI(HYDROXYETHYL)ETHER (CCD ID: PEG) (formula: C₄H₁₀O₃).



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

- Molecule 6 is BORIC ACID (CCD ID: BO3) (formula: BH_3O_3).

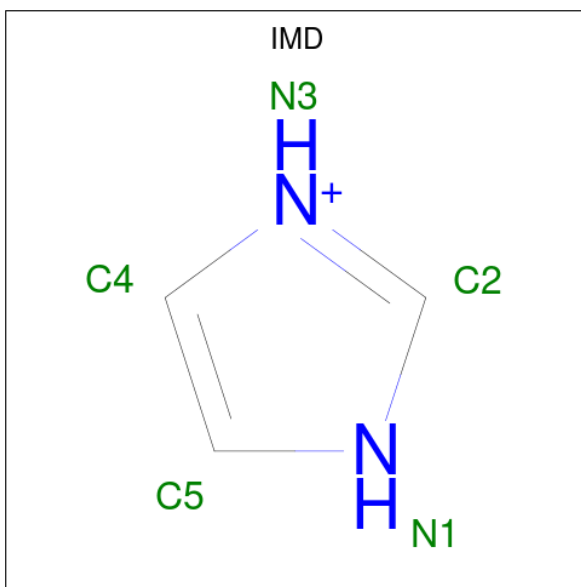


Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
6	A	1	Total	B	O	0	0
			4	1	3		

- Molecule 7 is CHLORIDE ION (CCD ID: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	B	1	Total	Cl	0	0
			1	1		

- Molecule 8 is IMIDAZOLE (CCD ID: IMD) (formula: $\text{C}_3\text{H}_5\text{N}_2$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
8	B	1	Total	C	N	0	0
			5	3	2		

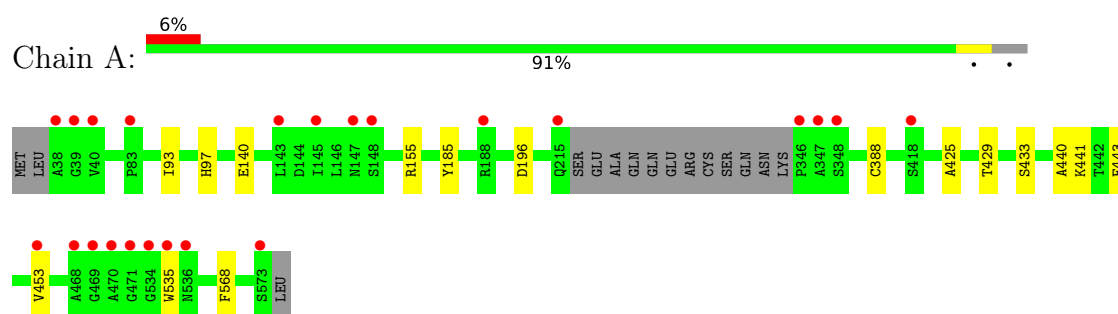
- Molecule 9 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
9	A	377	Total	O	0	0
			377	377		
9	B	87	Total	O	0	0
			87	87		

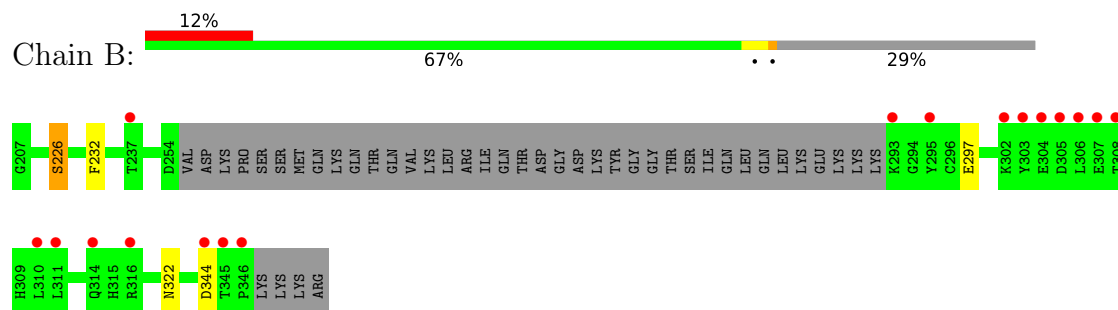
3 Residue-property plots [i](#)

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: Cell division cycle 7-related protein kinase,Cell division cycle 7-related protein kinase,Cell division cycle 7-related protein kinase



- Molecule 2: Protein DBF4 homolog A



4 Data and refinement statistics

Property	Value	Source
Space group	P 41 21 2	Depositor
Cell constants a, b, c, α , β , γ	61.64Å 61.64Å 233.91Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	42.85 – 1.44 42.85 – 1.44	Depositor EDS
% Data completeness (in resolution range)	99.5 (42.85-1.44) 99.5 (42.85-1.44)	Depositor EDS
R_{merge}	0.05	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.51 (at 1.44Å)	Xtriage
Refinement program	PHENIX dev_3707, PHENIX dev_3707	Depositor
R, R_{free}	0.167 , 0.193 0.168 , 0.196	Depositor DCC
R_{free} test set	4139 reflections (4.99%)	wwPDB-VP
Wilson B-factor (Å ²)	13.6	Xtriage
Anisotropy	0.081	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 40.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.45$, $\langle L^2 \rangle = 0.28$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	4072	wwPDB-VP
Average B, all atoms (Å ²)	20.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.52% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: 0SX, PEG, ZN, CL, IMD, BO3, SEP

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	0.26	0/2784	0.53	0/3761
2	B	0.22	0/860	0.46	0/1159
All	All	0.25	0/3644	0.52	0/4920

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	2719	0	2773	10	0
2	B	850	0	813	4	0
3	A	20	0	12	0	0
4	A	1	0	0	0	0
4	B	1	0	0	0	0
5	A	7	0	10	1	0
6	A	4	0	3	0	0
7	B	1	0	0	0	0
8	B	5	0	5	0	0
9	A	377	0	0	2	0
9	B	87	0	0	3	0
All	All	4072	0	3616	13	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 2.

All (13) 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)
2:B:322:ASN:OD1	9:B:501:HOH:O	2.14	0.65
1:A:93:ILE:HA	5:A:603:PEG:H11	1.86	0.56
1:A:388[B]:CYS:SG	1:A:443:PHE:CD2	2.98	0.56
2:B:344:ASP:OD2	9:B:502:HOH:O	2.19	0.49
1:A:155:ARG:HG2	1:A:568:PHE:CZ	2.47	0.49
2:B:226:SEP:O1P	9:B:503:HOH:O	2.20	0.48
1:A:535:TRP:N	9:A:706:HOH:O	2.46	0.47
1:A:433:SER:HB3	1:A:453:VAL:HG22	1.94	0.47
1:A:97:HIS:HB2	2:B:297:GLU:HB3	1.97	0.47
1:A:140:GLU:HG2	1:A:185:TYR:O	2.16	0.46
1:A:425:ALA:O	1:A:429:THR:HG23	2.15	0.45
1:A:440:ALA:HA	1:A:443:PHE:CZ	2.53	0.43
1:A:441:LYS:NZ	9:A:714:HOH:O	2.51	0.43

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	344/359 (96%)	334 (97%)	9 (3%)	1 (0%)	36	17
2	B	97/144 (67%)	97 (100%)	0	0	100	100
All	All	441/503 (88%)	431 (98%)	9 (2%)	1 (0%)	43	22

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	196	ASP

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	297/307 (97%)	297 (100%)	0	100	100
2	B	96/135 (71%)	95 (99%)	1 (1%)	68	39
All	All	393/442 (89%)	392 (100%)	1 (0%)	86	74

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

Mol	Chain	Res	Type
2	B	232	PHE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (3) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	204	HIS
1	A	536	ASN
2	B	227	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](#)

1 non-standard protein/DNA/RNA residue is modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	SEP	B	226	2	8,9,10	1.58	1 (12%)	7,12,14	1.06	1 (14%)

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	SEP	B	226	2	-	1/6/8/10	-

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	226	SEP	P-O1P	3.46	1.61	1.50

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	226	SEP	OG-CB-CA	2.14	110.23	108.14

There are no chirality outliers.

All (1) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	B	226	SEP	CA-CB-OG-P

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	226	SEP	1	0

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 7 ligands modelled in this entry, 3 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$
6	BO3	A	604	-	3,3,3	0.48	0	3,3,3	0.05	0
5	PEG	A	603	-	6,6,6	0.50	0	5,5,5	0.28	0
3	OSX	A	601	-	21,23,23	2.38	8 (38%)	31,34,34	2.38	10 (32%)
8	IMD	B	403	-	5,5,5	0.64	0	5,5,5	0.46	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
8	IMD	B	403	-	-	-	0/1/1/1
5	PEG	A	603	-	-	3/4/4/4	-
3	OSX	A	601	-	-	0/0/11/11	0/4/4/4

All (8) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	601	OSX	OAA-CAO	5.60	1.34	1.23
3	A	601	OSX	CAF-CAH	-4.90	1.32	1.51
3	A	601	OSX	CAT-NAJ	-3.89	1.33	1.50
3	A	601	OSX	OAL-CAS	-2.98	1.33	1.39
3	A	601	OSX	OAL-CAP	-2.56	1.34	1.38
3	A	601	OSX	CAO-NAK	-2.41	1.34	1.38
3	A	601	OSX	CAH-CAT	2.33	1.62	1.54
3	A	601	OSX	CAG-NAJ	2.07	1.56	1.49

All (10) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	601	OSX	CAR-CAS-CAO	-7.08	118.15	123.71
3	A	601	OSX	CAQ-CAR-CAS	-4.52	104.48	106.14
3	A	601	OSX	CAS-CAR-NAI	-4.03	121.73	124.24
3	A	601	OSX	CAP-OAL-CAS	3.83	109.26	105.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	601	OSX	OAL-CAS-CAO	3.67	130.87	124.00
3	A	601	OSX	OAL-CAS-CAR	-2.92	110.98	112.58
3	A	601	OSX	CAQ-CAE-CAM	-2.75	114.89	119.53
3	A	601	OSX	CAE-CAQ-CAP	2.61	121.84	119.28
3	A	601	OSX	CAC-CAM-CAE	2.45	124.73	121.53
3	A	601	OSX	OAA-CAO-CAS	-2.10	120.12	125.70

There are no chirality outliers.

All (3) torsion outliers are listed below:

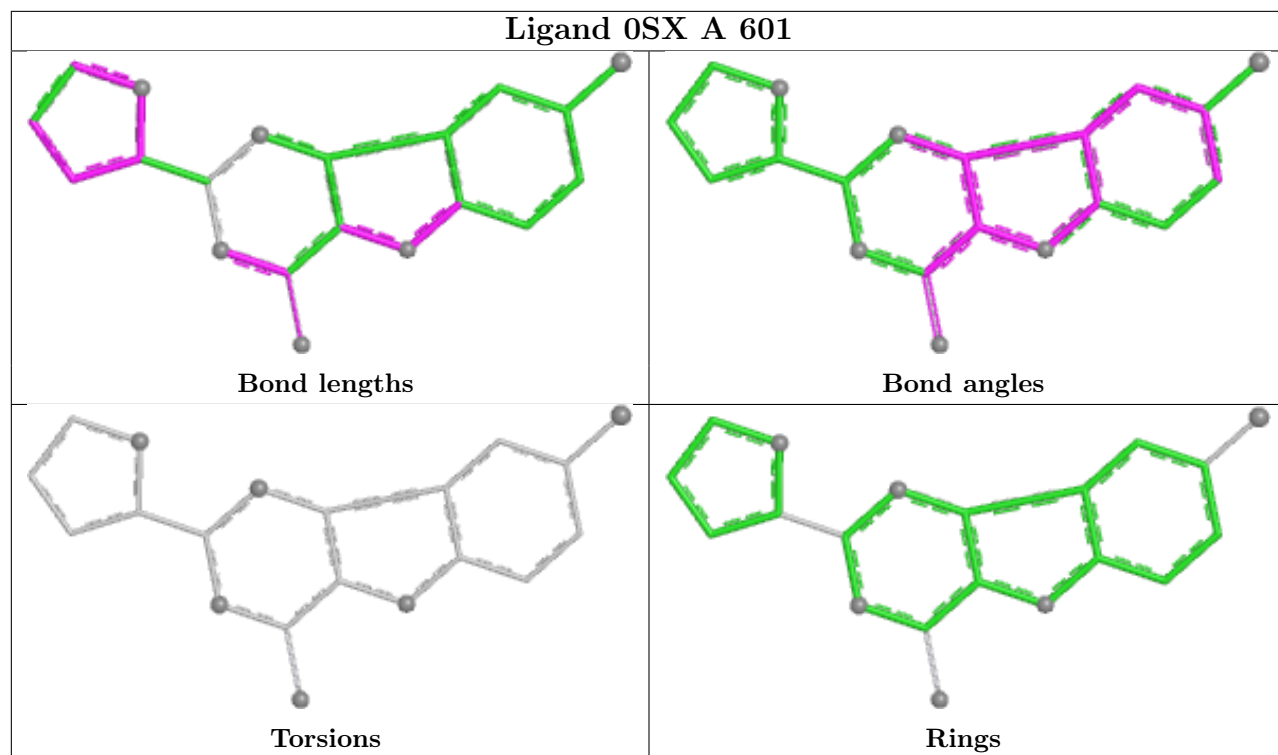
Mol	Chain	Res	Type	Atoms
5	A	603	PEG	C1-C2-O2-C3
5	A	603	PEG	O1-C1-C2-O2
5	A	603	PEG	O2-C3-C4-O4

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	A	603	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 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 ⓘ

6.1 Protein, DNA and RNA chains ⓘ

In the following table, the column labelled ‘#RSRZ > 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q < 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	344/359 (95%)	0.02	23 (6%) 24 25	8, 15, 34, 71	4 (1%)
2	B	101/144 (70%)	0.62	17 (16%) 4 5	12, 19, 54, 81	0
All	All	445/503 (88%)	0.15	40 (8%) 15 17	8, 16, 43, 81	4 (0%)

All (40) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	468	ALA	6.0
1	A	470	ALA	5.6
1	A	471	GLY	5.3
1	A	346	PRO	5.2
1	A	534	GLY	5.1
1	A	348	SER	4.6
2	B	345	THR	4.0
2	B	293	LYS	4.0
1	A	573	SER	3.9
1	A	38	ALA	3.9
1	A	215	GLN	3.8
2	B	311	LEU	3.7
2	B	308	THR	3.5
2	B	346	PRO	3.4
1	A	39	GLY	3.3
1	A	535	TRP	3.3
1	A	469	GLY	3.2
1	A	347	ALA	3.0
2	B	316	ARG	2.8
2	B	310	LEU	2.8
2	B	306	LEU	2.6
2	B	344	ASP	2.4
1	A	148	SER	2.4
1	A	188	ARG	2.4

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Mol	Chain	Res	Type	RSRZ
1	A	536	ASN	2.4
2	B	237	THR	2.3
2	B	304	GLU	2.3
2	B	314	GLN	2.3
2	B	303	TYR	2.3
2	B	302	LYS	2.3
2	B	295	TYR	2.2
1	A	453	VAL	2.2
1	A	145	ILE	2.2
2	B	307	GLU	2.2
1	A	147	ASN	2.1
1	A	418	SER	2.1
2	B	305	ASP	2.1
1	A	83	PRO	2.1
1	A	143	LEU	2.0
1	A	40	VAL	2.0

6.2 Non-standard residues in protein, DNA, RNA chains [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	SEP	B	226	10/11	0.93	0.09	17,22,27,29	4

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.

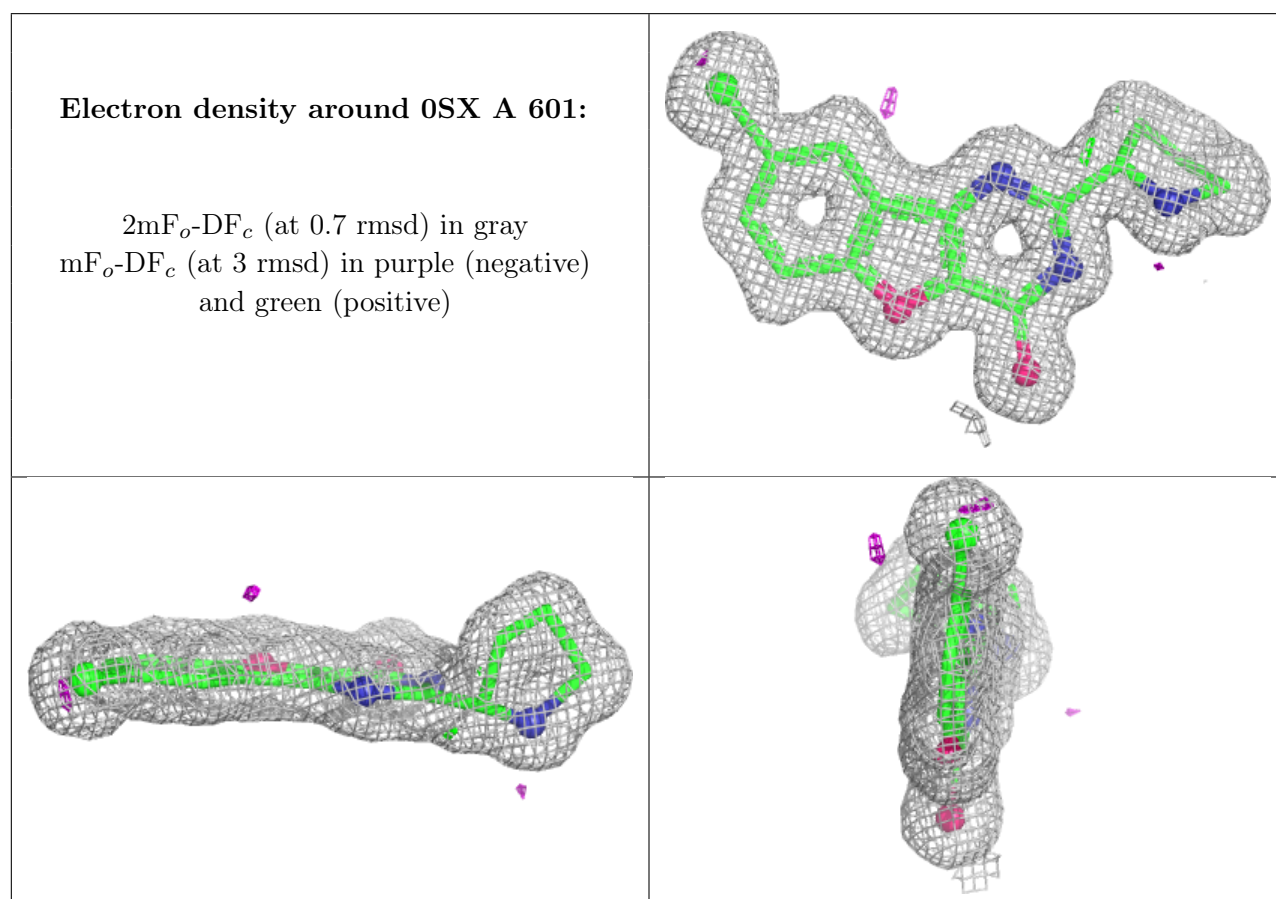
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
6	BO3	A	604	4/4	0.63	0.14	61,63,63,65	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
5	PEG	A	603	7/7	0.72	0.19	47,49,52,53	0
8	IMD	B	403	5/5	0.73	0.18	49,49,49,49	0
7	CL	B	402	1/1	0.95	0.12	30,30,30,30	0
3	OSX	A	601	20/20	0.98	0.05	9,10,16,16	0
4	ZN	B	401	1/1	0.99	0.03	23,23,23,23	0
4	ZN	A	602	1/1	1.00	0.02	12,12,12,12	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.