



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 6, 2026 – 06:34 PM UTC

PDB ID : 5XP7 / pdb_00005xp7
Title : C-Src in complex with ATP-CHCl
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Deposited on : 2017-06-01
Resolution : 2.01 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

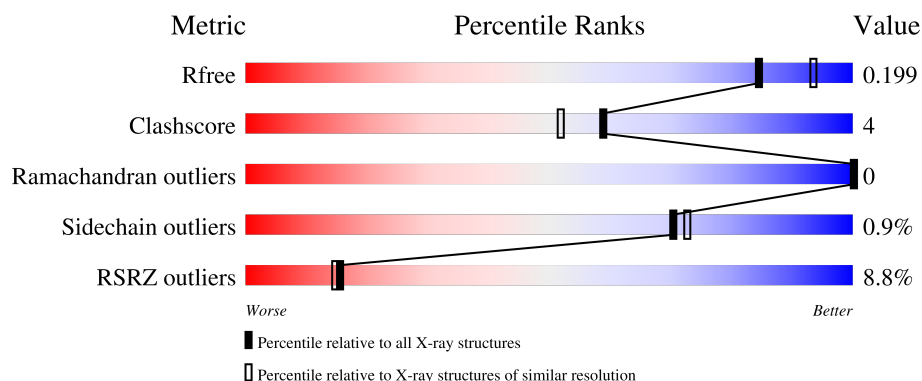
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.01 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	13299 (2.04-2.00)
Clashscore	190562	1022 (2.02-2.02)
Ramachandran outliers	187476	1014 (2.02-2.02)
Sidechain outliers	187428	1014 (2.02-2.02)
RSRZ outliers	180081	13314 (2.04-2.00)

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	286	7% 84% 9% 7%
1	B	286	9% 84% 8% 7%

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 4747 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.

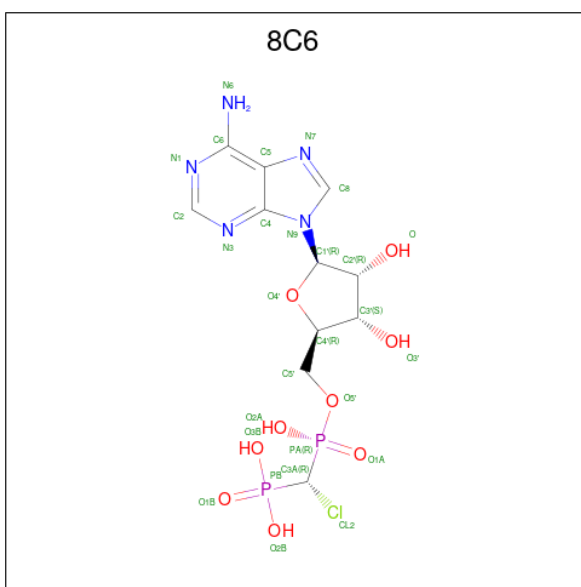
- Molecule 1 is a protein called Proto-oncogene tyrosine-protein kinase Src.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	265	Total	C	N	O	S	0	0	0
			2135	1372	357	389	17			
1	B	267	Total	C	N	O	S	0	0	0
			2149	1380	359	393	17			

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	248	GLY	-	expression tag	UNP P00523
A	249	HIS	-	expression tag	UNP P00523
A	250	MET	-	expression tag	UNP P00523
B	248	GLY	-	expression tag	UNP P00523
B	249	HIS	-	expression tag	UNP P00523
B	250	MET	-	expression tag	UNP P00523

- Molecule 2 is [(R)-[[(2R,3S,4R,5R)-5-(6-aminopurin-9-yl)-3,4-bis(oxidanyl)oxolan-2-yl]methoxy-oxidanyl-phosphoryl]-chloranyl-methyl]phosphonic acid (CCD ID: 8C6) (formula: C₁₁H₁₆ClN₅O₉P₂).



Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
2	A	1	Total 28	C 11	Cl 1	N 5	O 9	P 2	0	0
2	B	1	Total 28	C 11	Cl 1	N 5	O 9	P 2	0	0

- Molecule 3 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total Mg 1 1	0	0
3	B	1	Total Mg 1 1	0	0

- Molecule 4 is GLYCEROL (CCD ID: GOL) (formula: $\text{C}_3\text{H}_8\text{O}_3$).



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

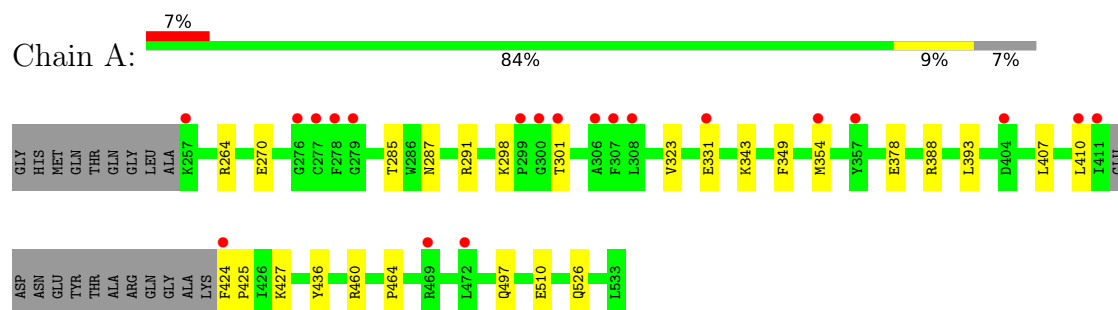
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	175	Total	O	0	0
			175	175		
5	B	224	Total	O	0	0
			224	224		

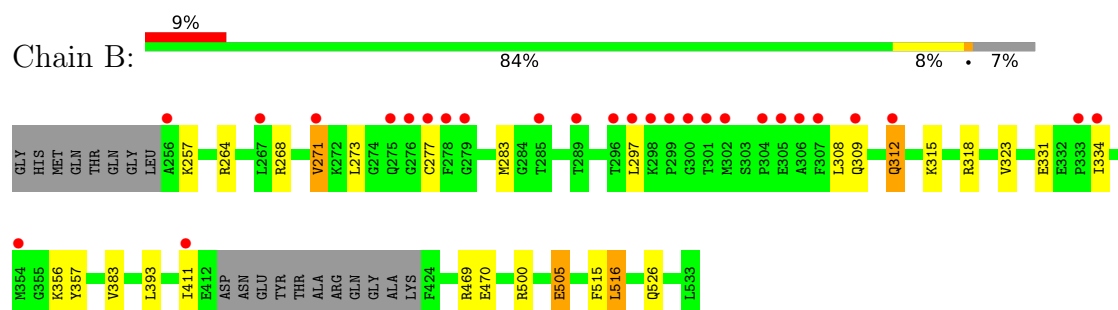
3 Residue-property plots [i](#)

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: Proto-oncogene tyrosine-protein kinase Src



- Molecule 1: Proto-oncogene tyrosine-protein kinase Src



4 Data and refinement statistics

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	42.28Å 63.98Å 74.00Å 101.03° 89.83° 90.60°	Depositor
Resolution (Å)	36.55 – 2.01 36.55 – 2.01	Depositor EDS
% Data completeness (in resolution range)	96.4 (36.55-2.01) 96.4 (36.55-2.01)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.41 (at 2.01Å)	Xtriage
Refinement program	PHENIX 1.8.4_1496	Depositor
R, R_{free}	0.168 , 0.198 0.171 , 0.199	Depositor DCC
R_{free} test set	2015 reflections (3.99%)	wwPDB-VP
Wilson B-factor (Å ²)	31.9	Xtriage
Anisotropy	0.144	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 51.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	0.025 for h,-k,-l	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	4747	wwPDB-VP
Average B, all atoms (Å ²)	48.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 7.26% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: MG, GOL, 8C6

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	0.59	0/2187	0.81	3/2960 (0.1%)
1	B	0.59	0/2201	0.84	2/2979 (0.1%)
All	All	0.59	0/4388	0.83	5/5939 (0.1%)

There are no bond length outliers.

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	505	GLU	CA-CB-CG	5.46	125.01	114.10
1	B	312	GLN	CA-CB-CG	-5.19	103.71	114.10
1	A	298	LYS	CA-C-N	5.19	126.33	119.84
1	A	298	LYS	C-N-CA	5.19	126.33	119.84
1	A	301	THR	N-CA-C	-5.13	107.40	113.97

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	2135	0	2129	17	0
1	B	2149	0	2140	22	0
2	A	28	0	0	0	0
2	B	28	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	A	1	0	0	0	0
3	B	1	0	0	0	0
4	B	6	0	8	0	0
5	A	175	0	0	10	1
5	B	224	0	0	8	1
All	All	4747	0	4277	38	1

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 4.

All (38) 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:460:ARG:NH1	5:A:701:HOH:O	1.89	1.02
1:A:464:PRO:O	5:A:702:HOH:O	2.02	0.76
1:B:526:GLN:NE2	5:B:701:HOH:O	2.17	0.72
1:B:500:ARG:HD3	1:B:505:GLU:HB3	1.71	0.72
1:A:291:ARG:NH2	5:A:710:HOH:O	2.26	0.69
1:A:436:TYR:OH	5:A:704:HOH:O	2.06	0.69
1:A:510:GLU:OE2	5:A:706:HOH:O	2.12	0.67
1:B:318:ARG:HB2	5:B:718:HOH:O	1.94	0.67
1:A:343:LYS:O	5:A:707:HOH:O	2.13	0.65
1:B:323:VAL:HG21	1:B:393:LEU:HD12	1.79	0.63
1:A:427:LYS:NZ	5:A:713:HOH:O	2.33	0.61
1:B:356:LYS:HE3	1:B:357:TYR:CZ	2.37	0.60
1:A:526:GLN:NE2	1:B:277:CYS:SG	2.73	0.59
1:B:312:GLN:NE2	1:B:315:LYS:HD2	2.19	0.57
1:B:264:ARG:HH21	1:B:331:GLU:HG3	1.69	0.57
1:B:312:GLN:HA	1:B:312:GLN:HE21	1.71	0.55
1:B:515:PHE:HD1	1:B:516:LEU:HD12	1.72	0.55
1:A:378:GLU:OE1	5:A:708:HOH:O	2.18	0.54
1:B:312:GLN:HE21	1:B:315:LYS:HD2	1.71	0.54
1:B:273:LEU:HD11	1:B:283:MET:HB2	1.90	0.54
1:A:323:VAL:HG21	1:A:393:LEU:HD12	1.91	0.53
1:B:309:GLN:NE2	5:B:710:HOH:O	2.37	0.53
1:B:470:GLU:CD	5:B:703:HOH:O	2.53	0.51
1:A:287:ASN:OD1	5:A:709:HOH:O	2.20	0.47
1:B:271:VAL:HG13	1:B:283:MET:HB3	1.97	0.46
1:B:469:ARG:NH2	5:B:715:HOH:O	2.48	0.46
1:A:388:ARG:NH2	1:A:425:PRO:HG3	2.31	0.46
1:A:407:LEU:HD13	1:A:424:PHE:CE1	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:270:GLU:OE1	1:A:285:THR:OG1	2.32	0.44
1:B:308:LEU:HG	1:B:334:ILE:HD13	1.99	0.43
1:A:349:PHE:CZ	1:A:354:MET:HG2	2.54	0.43
1:B:257:LYS:HG2	5:B:748:HOH:O	2.19	0.43
1:B:470:GLU:OE1	5:B:702:HOH:O	2.21	0.42
1:B:470:GLU:OE2	5:B:703:HOH:O	2.21	0.42
1:B:383:VAL:HG23	1:B:411:ILE:HG12	2.02	0.42
1:A:264:ARG:NH2	1:A:331:GLU:OE2	2.52	0.42
1:A:497:GLN:NE2	5:A:705:HOH:O	2.11	0.41
1:B:268:ARG:HD3	1:B:268:ARG:HA	1.77	0.40

All (1) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A:833:HOH:O	5:B:882:HOH:O[1_565]	2.18	0.02

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	261/286 (91%)	256 (98%)	5 (2%)	0	100	100
1	B	263/286 (92%)	258 (98%)	5 (2%)	0	100	100
All	All	524/572 (92%)	514 (98%)	10 (2%)	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	230/245 (94%)	229 (100%)	1 (0%)	84	84
1	B	231/245 (94%)	228 (99%)	3 (1%)	61	63
All	All	461/490 (94%)	457 (99%)	4 (1%)	70	73

All (4) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	410	LEU
1	B	271	VAL
1	B	297	LEU
1	B	516	LEU

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

Mol	Chain	Res	Type
1	A	312	GLN
1	B	312	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](#)

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 5 ligands modelled in this entry, 2 are monoatomic - leaving 3 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	8C6	A	600	3	27,30,30	3.16	14 (51%)	43,47,47	3.50	21 (48%)
4	GOL	B	603	-	5,5,5	0.40	0	5,5,5	0.52	0
2	8C6	B	601	3	27,30,30	3.16	15 (55%)	43,47,47	3.34	19 (44%)

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	8C6	A	600	3	-	2/16/38/38	0/3/3/3
4	GOL	B	603	-	-	2/4/4/4	-
2	8C6	B	601	3	-	2/16/38/38	0/3/3/3

All (29) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	600	8C6	C5-N7	7.71	1.53	1.39
2	B	601	8C6	C5-N7	7.32	1.52	1.39
2	B	601	8C6	C5-C4	5.58	1.49	1.39
2	A	600	8C6	C8-N9	-5.40	1.28	1.37
2	B	601	8C6	C8-N9	-5.14	1.28	1.37
2	A	600	8C6	C5-C4	4.89	1.47	1.39
2	B	601	8C6	O4'-C1'	4.63	1.52	1.42
2	A	600	8C6	C6-N6	4.62	1.46	1.34
2	B	601	8C6	C6-N6	4.57	1.45	1.34
2	A	600	8C6	O4'-C1'	4.26	1.51	1.42
2	A	600	8C6	PB-O3B	-4.22	1.48	1.54
2	B	601	8C6	PB-O3B	-4.17	1.48	1.54
2	A	600	8C6	C4-N9	-4.15	1.29	1.37
2	B	601	8C6	C4-N9	-3.68	1.30	1.37
2	B	601	8C6	PA-O2A	-3.62	1.48	1.56
2	A	600	8C6	PB-O2B	-3.61	1.49	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	600	8C6	PA-O2A	-3.53	1.48	1.56
2	B	601	8C6	PB-O2B	-3.46	1.49	1.54
2	B	601	8C6	PA-O5'	3.32	1.62	1.57
2	A	600	8C6	PA-O5'	3.32	1.62	1.57
2	B	601	8C6	C8-N7	3.30	1.38	1.31
2	A	600	8C6	C8-N7	3.25	1.37	1.31
2	B	601	8C6	C2'-C3'	-2.75	1.45	1.53
2	A	600	8C6	C2'-C3'	-2.67	1.46	1.53
2	A	600	8C6	O4'-C4'	2.54	1.50	1.45
2	B	601	8C6	O4'-C4'	2.38	1.50	1.45
2	A	600	8C6	C1'-N9	-2.24	1.40	1.46
2	B	601	8C6	C3'-C4'	-2.11	1.47	1.53
2	B	601	8C6	C2'-C1'	-2.05	1.47	1.53

All (40) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	600	8C6	C4-N9-C8	14.62	121.08	105.74
2	B	601	8C6	C4-N9-C8	13.34	119.75	105.74
2	B	601	8C6	N3-C4-N9	7.52	139.95	127.17
2	B	601	8C6	C5-C4-N3	-7.12	116.92	126.72
2	A	600	8C6	N3-C4-N9	7.03	139.12	127.17
2	A	600	8C6	C5-C4-N3	-6.47	117.81	126.72
2	A	600	8C6	C4-C5-N7	-6.09	103.62	110.58
2	B	601	8C6	C4-C5-N7	-5.76	103.99	110.58
2	A	600	8C6	N9-C8-N7	-4.77	107.17	113.94
2	A	600	8C6	O2A-PA-O1A	-4.42	100.81	111.58
2	A	600	8C6	O2B-PB-O1B	-3.89	103.70	113.45
2	B	601	8C6	N9-C8-N7	-3.87	108.44	113.94
2	B	601	8C6	C1'-N9-C8	-3.85	118.55	127.09
2	B	601	8C6	O2A-PA-O1A	-3.75	102.43	111.58
2	B	601	8C6	O3B-PB-O1B	-3.71	104.14	113.45
2	A	600	8C6	O3B-PB-O1B	-3.46	104.78	113.45
2	A	600	8C6	C1'-N9-C8	-3.26	119.85	127.09
2	B	601	8C6	C2-N3-C4	3.26	119.80	111.83
2	A	600	8C6	C4-N9-C1'	-3.23	119.07	126.63
2	A	600	8C6	C3'-C2'-C1'	3.23	107.56	101.46
2	B	601	8C6	N3-C2-N1	-3.22	123.71	128.58
2	B	601	8C6	O2B-PB-O1B	-3.16	105.53	113.45
2	A	600	8C6	C2-N3-C4	3.11	119.44	111.83
2	A	600	8C6	N3-C2-N1	-3.08	123.92	128.58
2	B	601	8C6	C3'-C2'-C1'	2.76	106.68	101.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	600	8C6	C6-C5-N7	2.57	137.05	132.09
2	A	600	8C6	C5-C4-N9	-2.52	103.07	105.81
2	B	601	8C6	C5-C4-N9	-2.47	103.12	105.81
2	A	600	8C6	O2B-PB-C3A	2.43	114.10	106.64
2	B	601	8C6	O3B-PB-C3A	2.42	114.10	106.64
2	A	600	8C6	O5'-PA-C3A	2.41	111.19	103.85
2	A	600	8C6	O3B-PB-C3A	2.40	114.02	106.64
2	B	601	8C6	O1B-PB-C3A	2.34	114.99	108.73
2	A	600	8C6	O1B-PB-C3A	2.18	114.56	108.73
2	B	601	8C6	C6-C5-C4	2.16	120.13	117.18
2	A	600	8C6	C2'-C3'-C4'	2.16	106.78	102.61
2	B	601	8C6	C4-N9-C1'	-2.11	121.70	126.63
2	B	601	8C6	O2B-PB-C3A	2.11	113.12	106.64
2	B	601	8C6	O2A-PA-C3A	2.05	112.69	106.44
2	A	600	8C6	C4'-O4'-C1'	-2.00	105.04	109.47

There are no chirality outliers.

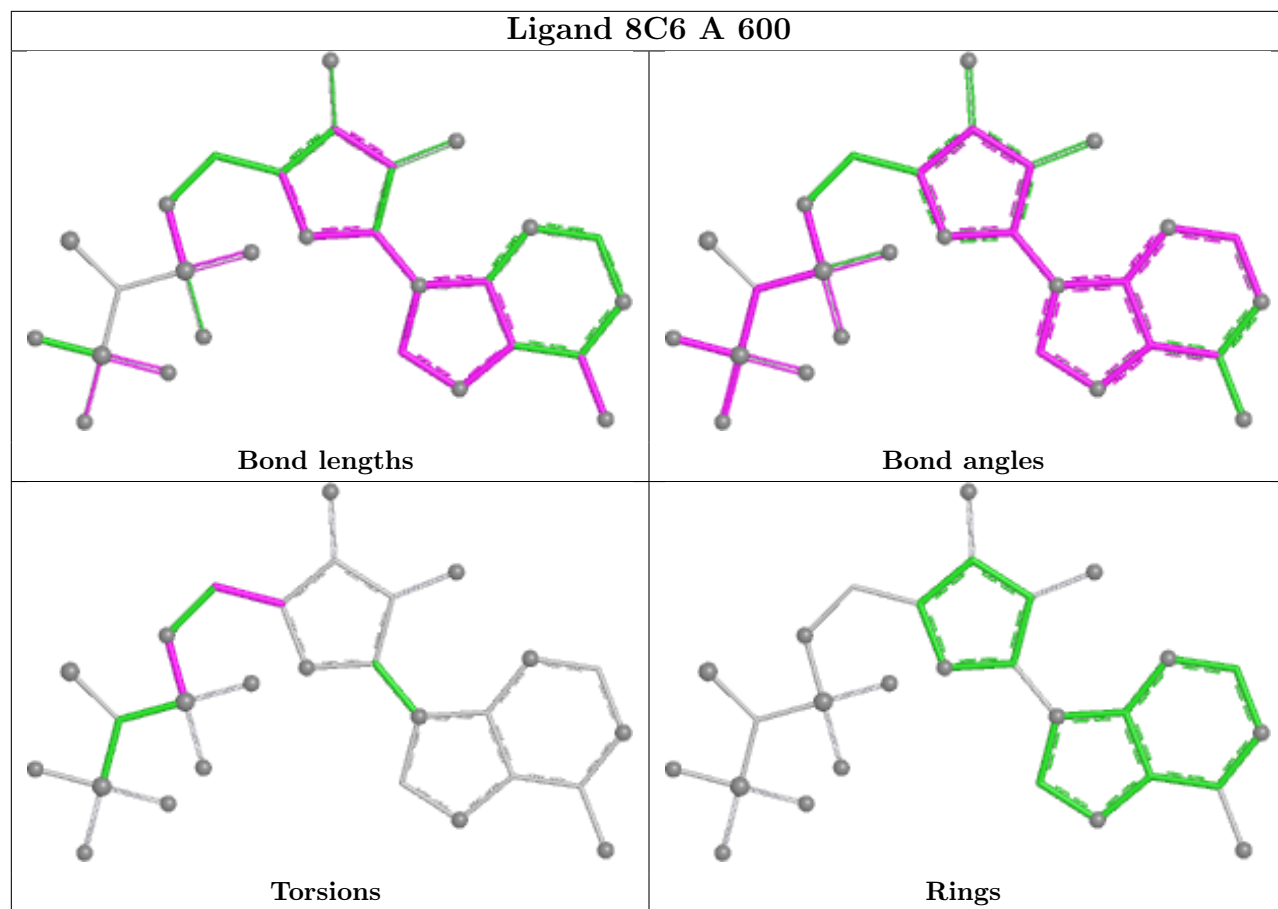
All (6) torsion outliers are listed below:

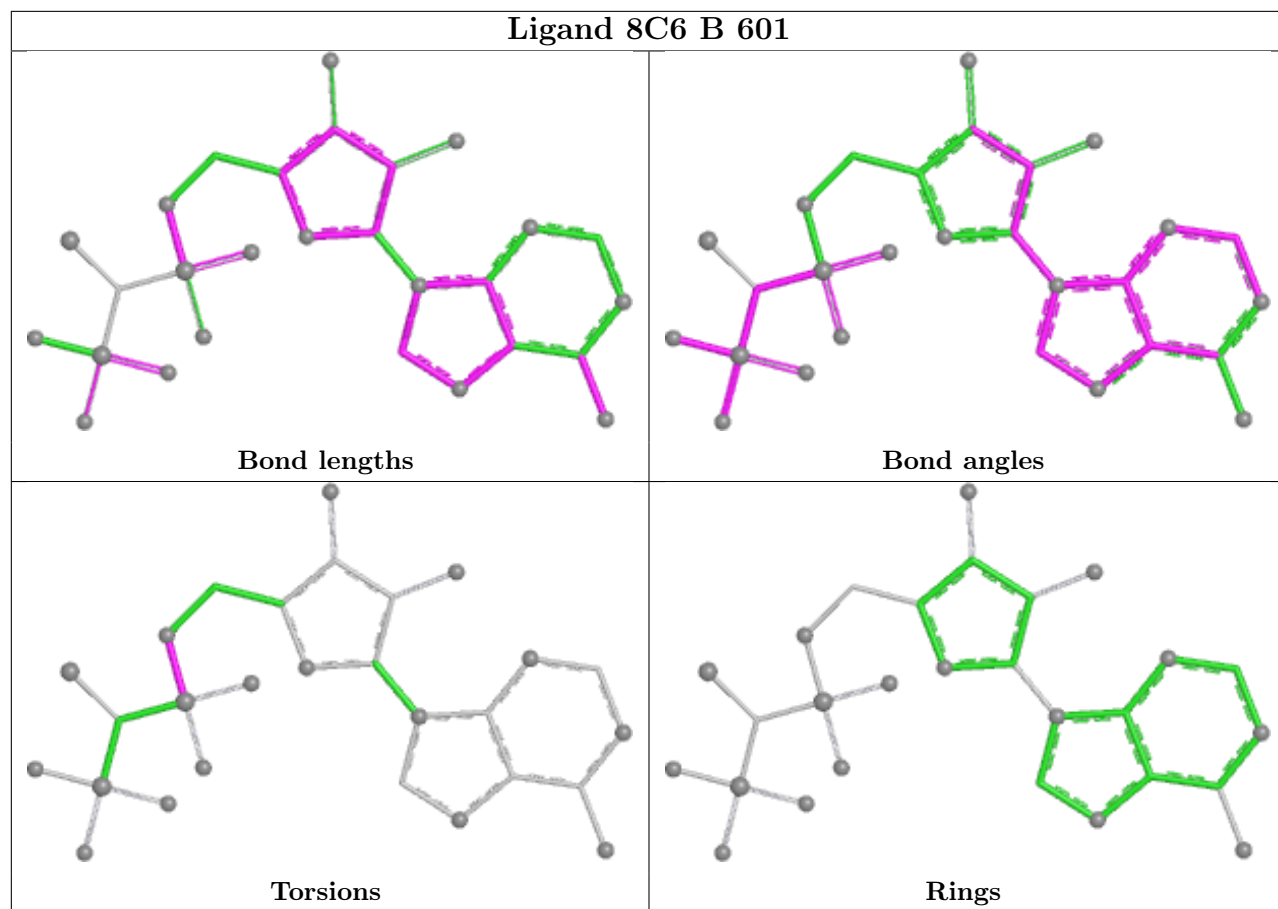
Mol	Chain	Res	Type	Atoms
4	B	603	GOL	O1-C1-C2-C3
4	B	603	GOL	O1-C1-C2-O2
2	B	601	8C6	C5'-O5'-PA-O1A
2	A	600	8C6	C5'-O5'-PA-C3A
2	B	601	8C6	C5'-O5'-PA-C3A
2	A	600	8C6	O4'-C4'-C5'-O5'

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 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	265/286 (92%)	0.25	20 (7%)	20 19	22, 42, 85, 151	0
1	B	267/286 (93%)	0.25	27 (10%)	12 11	22, 39, 101, 136	0
All	All	532/572 (93%)	0.25	47 (8%)	15 15	22, 40, 95, 151	0

All (47) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	277	CYS	6.2
1	A	278	PHE	5.4
1	B	279	GLY	5.2
1	A	411	ILE	4.4
1	B	299	PRO	4.1
1	B	278	PHE	3.8
1	B	297	LEU	3.7
1	A	469	ARG	3.4
1	A	424	PHE	3.4
1	B	305	GLU	3.4
1	A	354	MET	3.4
1	A	357	TYR	3.2
1	A	301	THR	3.2
1	A	306	ALA	3.1
1	B	276	GLY	3.0
1	B	354	MET	3.0
1	A	276	GLY	3.0
1	A	300	GLY	3.0
1	B	411	ILE	3.0
1	A	472	LEU	2.9
1	A	299	PRO	2.9
1	A	257	LYS	2.9
1	B	333	PRO	2.8
1	B	306	ALA	2.8

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Mol	Chain	Res	Type	RSRZ
1	B	302	MET	2.7
1	B	307	PHE	2.7
1	B	275	GLN	2.6
1	B	300	GLY	2.6
1	B	256	ALA	2.6
1	A	410	LEU	2.6
1	B	334	ILE	2.5
1	B	298	LYS	2.5
1	B	289	THR	2.5
1	B	271	VAL	2.4
1	B	277	CYS	2.4
1	A	279	GLY	2.4
1	B	301	THR	2.4
1	A	331	GLU	2.2
1	B	285	THR	2.2
1	A	404	ASP	2.2
1	A	307	PHE	2.1
1	B	312	GLN	2.1
1	A	308	LEU	2.1
1	B	296	THR	2.1
1	B	304	PRO	2.0
1	B	267	LEU	2.0
1	B	309	GLN	2.0

6.2 Non-standard residues in protein, DNA, RNA chains [i](#)

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

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q < 0.9' lists the number of atoms with occupancy less than 0.9.

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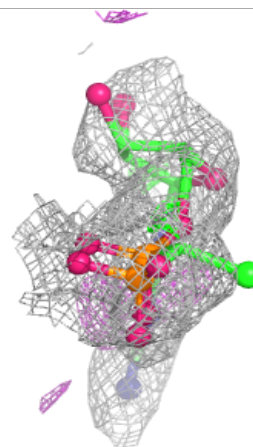
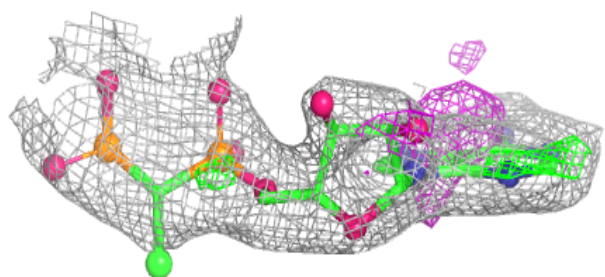
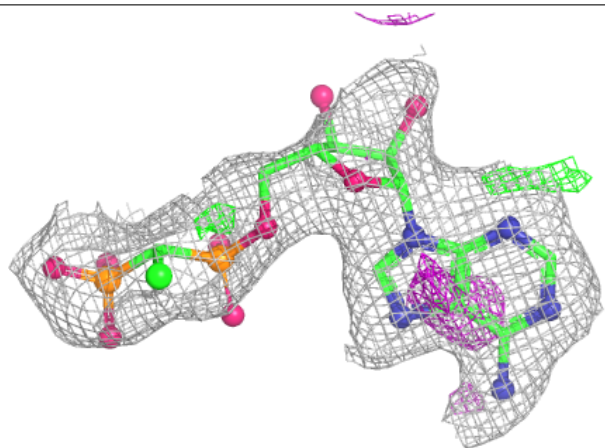
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	8C6	A	600	28/28	0.88	0.12	33,81,139,191	0
2	8C6	B	601	28/28	0.93	0.09	32,44,69,108	0
3	MG	A	601	1/1	0.94	0.09	74,74,74,74	0
4	GOL	B	603	6/6	0.94	0.10	36,42,47,53	0
3	MG	B	602	1/1	0.98	0.04	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.

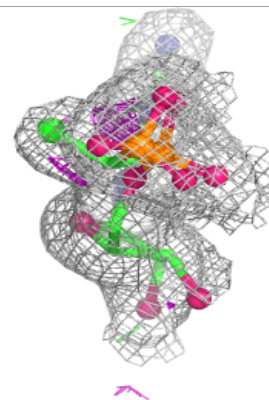
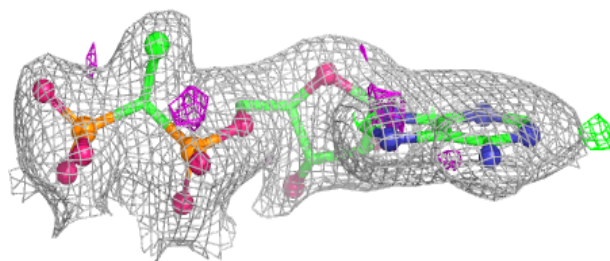
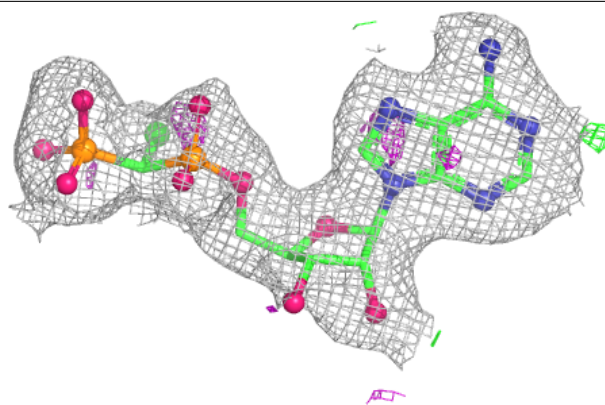
Electron density around 8C6 A 600:

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 8C6 B 601:

$2mF_o-DF_c$ (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.