



wwPDB X-ray Structure Validation Summary Report ⓘ

Mar 10, 2026 – 08:50 AM UTC

PDB ID : 8CXW / pdb_00008cxw
Title : CamA Adenine Methyltransferase Complexed to Cognate Substrate DNA and Inhibitor piclidenoson (Compound 4)
Authors : Horton, J.R.; Zhou, J.; Cheng, X.
Deposited on : 2022-05-22
Resolution : 2.78 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 ⓘ 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

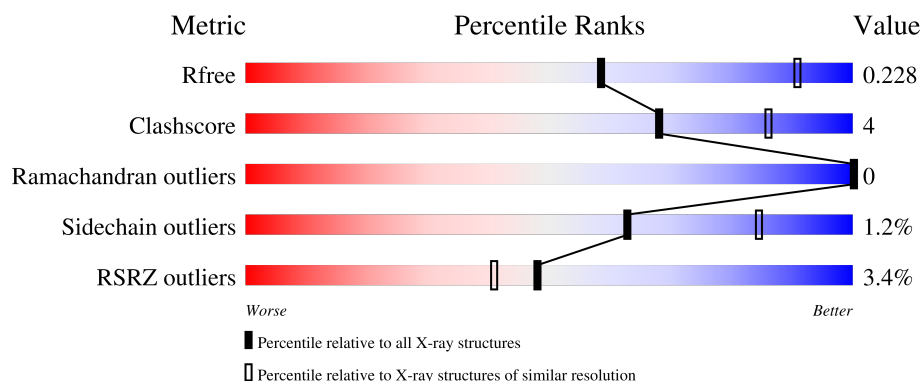
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

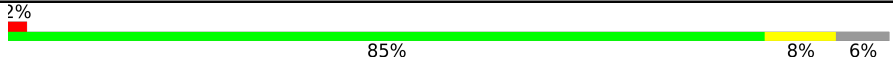
The reported resolution of this entry is 2.78 Å.

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.



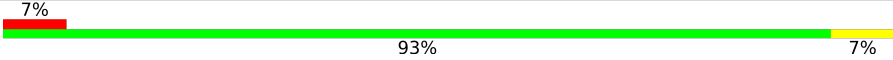
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	5248 (2.80-2.76)
Clashscore	190562	5693 (2.80-2.76)
Ramachandran outliers	187476	5590 (2.80-2.76)
Sidechain outliers	187428	5592 (2.80-2.76)
RSRZ outliers	180081	5251 (2.80-2.76)

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	578	
1	B	578	
1	C	578	
2	D	14	
2	F	14	

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Mol	Chain	Length	Quality of chain
2	H	14	
3	E	14	
3	G	14	
3	I	14	

2 Entry composition

There are 7 unique types of molecules in this entry. The entry contains 15558 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 Site-specific DNA-methyltransferase (adenine-specific).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	543	Total	C	N	O	S	0	1	0
			4503	2930	721	835	17			
1	B	549	Total	C	N	O	S	0	1	0
			4544	2962	729	836	17			
1	C	538	Total	C	N	O	S	0	0	0
			4329	2817	690	805	17			

There are 3 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	0	HIS	-	expression tag	UNP Q183J3
B	0	HIS	-	expression tag	UNP Q183J3
C	0	HIS	-	expression tag	UNP Q183J3

- Molecule 2 is a DNA chain called DNA Strand 1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	D	14	Total	C	N	O	P	0	0	0
			281	136	53	79	13			
2	F	14	Total	C	N	O	P	0	0	0
			281	136	53	79	13			
2	H	14	Total	C	N	O	P	0	0	0
			281	136	53	79	13			

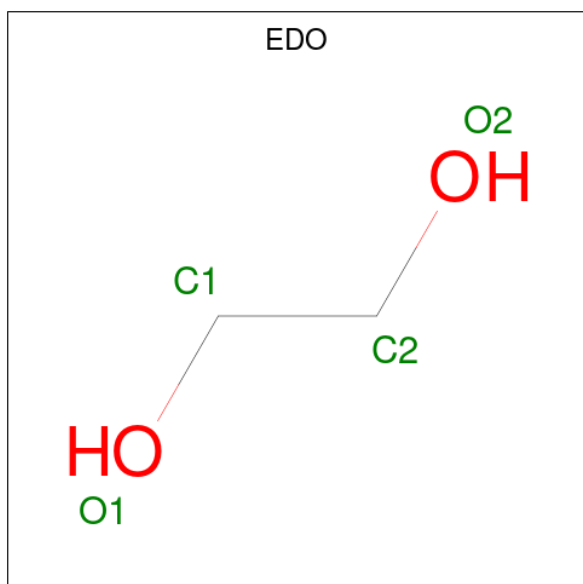
- Molecule 3 is a DNA chain called DNA Strand 2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	E	14	Total	C	N	O	P	0	0	0
			287	139	50	85	13			
3	G	14	Total	C	N	O	P	0	0	0
			287	139	50	85	13			
3	I	14	Total	C	N	O	P	0	0	0
			287	139	50	85	13			

- Molecule 4 is POTASSIUM ION (CCD ID: K) (formula: K).

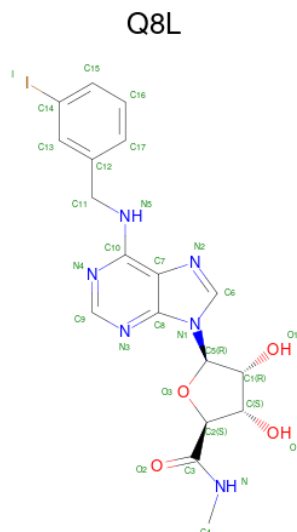
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	2	Total K 2 2	0	0
4	B	3	Total K 3 3	0	0
4	C	2	Total K 2 2	0	0

- Molecule 5 is 1,2-ETHANEDIOL (CCD ID: EDO) (formula: C₂H₆O₂).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	1	Total C O 4 2 2	0	0
5	A	1	Total C O 4 2 2	0	0
5	B	1	Total C O 4 2 2	0	0
5	B	1	Total C O 4 2 2	0	0
5	B	1	Total C O 4 2 2	0	0

- Molecule 6 is Piclidenoson (CCD ID: Q8L) (formula: C₁₈H₁₉IN₆O₄) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
6	A	1	Total 29	C 18	I 1	N 6	O 4	0	0
6	B	1	Total 29	C 18	I 1	N 6	O 4	0	0
6	C	1	Total 29	C 18	I 1	N 6	O 4	0	0

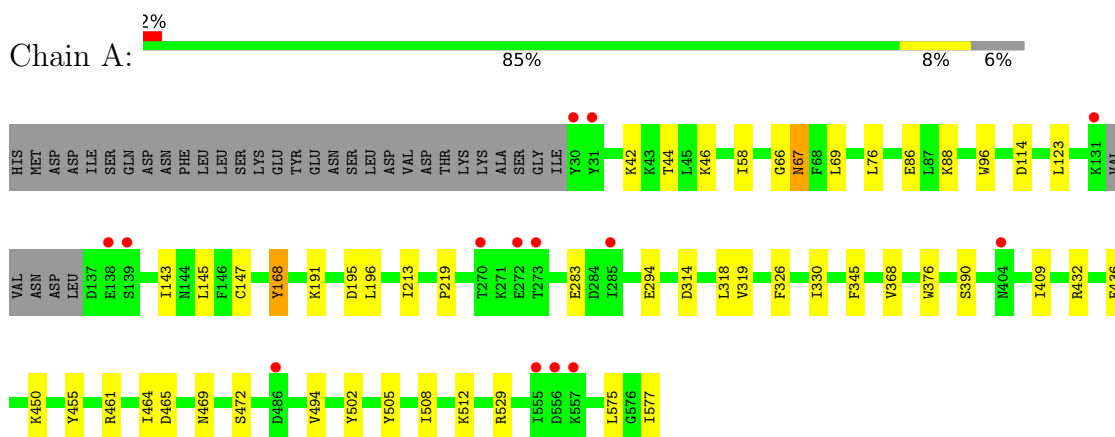
- Molecule 7 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	A	99	Total O 99 99	0	0
7	B	117	Total O 117 117	0	0
7	C	47	Total O 47 47	0	0
7	D	28	Total O 28 28	0	0
7	E	16	Total O 16 16	0	0
7	F	21	Total O 21 21	0	0
7	G	17	Total O 17 17	0	0
7	H	14	Total O 14 14	0	0
7	I	5	Total O 5 5	0	0

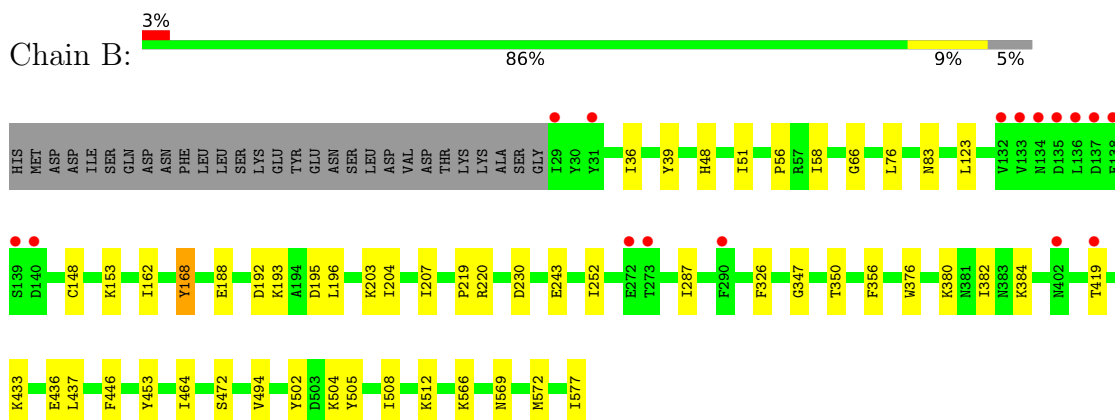
3 Residue-property plots [i](#)

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.

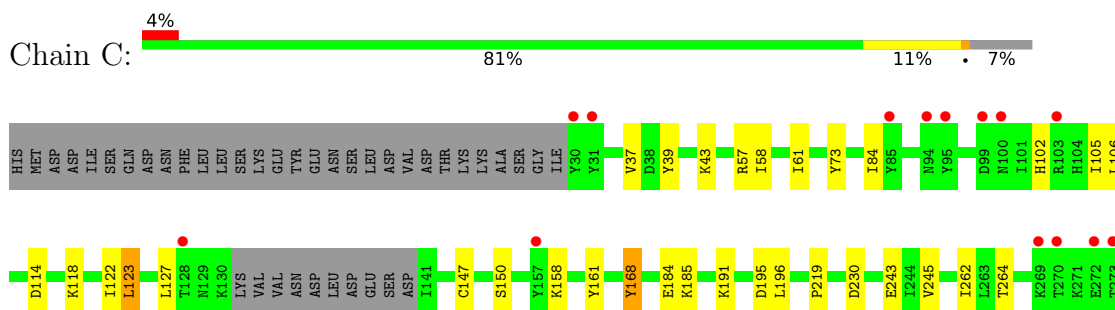
- Molecule 1: Site-specific DNA-methyltransferase (adenine-specific)



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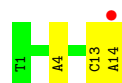
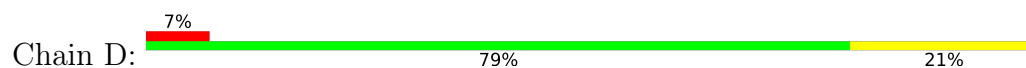


- Molecule 1: Site-specific DNA-methyltransferase (adenine-specific)

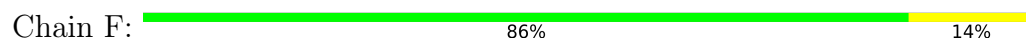




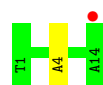
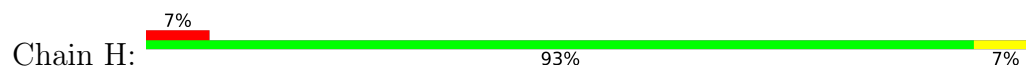
• Molecule 2: DNA Strand 1



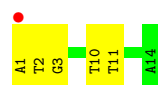
• Molecule 2: DNA Strand 1



• Molecule 2: DNA Strand 1



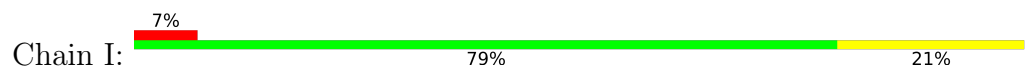
• Molecule 3: DNA Strand 2



• Molecule 3: DNA Strand 2



• Molecule 3: DNA Strand 2



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	81.33Å 161.63Å 229.60Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	46.80 – 2.78 46.80 – 2.78	Depositor EDS
% Data completeness (in resolution range)	99.3 (46.80-2.78) 99.3 (46.80-2.78)	Depositor EDS
R_{merge}	0.22	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.31 (at 2.77Å)	Xtriage
Refinement program	PHENIX 1.20.1_4487	Depositor
R, R_{free}	0.184 , 0.227 0.185 , 0.228	Depositor DCC
R_{free} test set	2000 reflections (2.61%)	wwPDB-VP
Wilson B-factor (Å ²)	48.6	Xtriage
Anisotropy	0.320	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 51.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	15558	wwPDB-VP
Average B, all atoms (Å ²)	56.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.38% 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: K, EDO, Q8L

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	0.10	0/4599	0.28	0/6193
1	B	0.11	0/4642	0.29	2/6249 (0.0%)
1	C	0.10	0/4419	0.29	2/5969 (0.0%)
2	D	0.17	0/315	0.35	0/483
2	F	0.15	0/315	0.31	0/483
2	H	0.14	0/315	0.31	0/483
3	E	0.18	0/321	0.39	0/495
3	G	0.21	0/321	0.45	0/495
3	I	0.19	0/321	0.41	0/495
All	All	0.11	0/15568	0.30	4/21345 (0.0%)

There are no bond length outliers.

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	384	LYS	CA-C-N	5.51	132.07	121.54
1	B	384	LYS	C-N-CA	5.51	132.07	121.54
1	C	384	LYS	CA-C-N	5.33	131.72	121.54
1	C	384	LYS	C-N-CA	5.33	131.72	121.54

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	4503	0	4463	29	0
1	B	4544	0	4519	27	0
1	C	4329	0	4172	41	0
2	D	281	0	159	2	0
2	F	281	0	159	1	0
2	H	281	0	159	1	0
3	E	287	0	162	3	0
3	G	287	0	162	2	0
3	I	287	0	162	2	0
4	A	2	0	0	0	0
4	B	3	0	0	0	0
4	C	2	0	0	0	0
5	A	8	0	12	1	0
5	B	12	0	18	1	0
6	A	29	0	0	1	0
6	B	29	0	0	0	0
6	C	29	0	0	2	0
7	A	99	0	0	1	0
7	B	117	0	0	0	0
7	C	47	0	0	0	0
7	D	28	0	0	0	0
7	E	16	0	0	0	0
7	F	21	0	0	0	0
7	G	17	0	0	0	0
7	H	14	0	0	0	0
7	I	5	0	0	0	0
All	All	15558	0	14147	105	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 4.

The worst 5 of 105 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:C:58:ILE:HG13	1:C:161:TYR:HB2	1.64	0.79
1:C:57:ARG:NH1	1:C:158:LYS:O	2.22	0.71
1:B:566:LYS:HA	5:B:606:EDO:H21	1.74	0.68
1:C:39:TYR:OH	1:C:243:GLU:OE2	2.13	0.66
1:C:280:ILE:HD11	1:C:285:ILE:HG12	1.80	0.64

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	540/578 (93%)	526 (97%)	14 (3%)	0	100	100
1	B	548/578 (95%)	534 (97%)	14 (3%)	0	100	100
1	C	534/578 (92%)	517 (97%)	17 (3%)	0	100	100
All	All	1622/1734 (94%)	1577 (97%)	45 (3%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains

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	493/548 (90%)	487 (99%)	6 (1%)	63	84
1	B	495/548 (90%)	492 (99%)	3 (1%)	78	91
1	C	456/548 (83%)	448 (98%)	8 (2%)	51	79
All	All	1444/1644 (88%)	1427 (99%)	17 (1%)	63	84

5 of 17 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	C	365	LEU
1	C	519	ASP
1	B	380	LYS
1	B	419	THR
1	C	37	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 12 such sidechains are listed below:

Mol	Chain	Res	Type
1	C	102	HIS
1	C	165	ASN
1	C	545	GLN
1	C	210	GLN
1	A	406	ASN

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 15 ligands modelled in this entry, 7 are monoatomic - leaving 8 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	Q8L	A	605	-	32,32,32	0.22	0	45,46,46	0.43	0
5	EDO	A	604	-	3,3,3	0.46	0	2,2,2	0.28	0
5	EDO	B	606	-	3,3,3	0.44	0	2,2,2	0.33	0
5	EDO	A	603	-	3,3,3	0.45	0	2,2,2	0.31	0
6	Q8L	C	603	-	32,32,32	0.25	0	45,46,46	0.44	0
6	Q8L	B	607	-	32,32,32	0.20	0	45,46,46	0.38	0
5	EDO	B	605	-	3,3,3	0.45	0	2,2,2	0.33	0
5	EDO	B	604	-	3,3,3	0.43	0	2,2,2	0.44	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
6	Q8L	A	605	-	-	4/15/31/31	0/4/4/4
5	EDO	A	604	-	-	1/1/1/1	-
5	EDO	B	606	-	-	0/1/1/1	-
5	EDO	A	603	-	-	0/1/1/1	-
6	Q8L	C	603	-	-	4/15/31/31	0/4/4/4
6	Q8L	B	607	-	-	4/15/31/31	0/4/4/4
5	EDO	B	605	-	-	1/1/1/1	-
5	EDO	B	604	-	-	0/1/1/1	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

5 of 14 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
6	A	605	Q8L	N4-C10-N5-C11
6	B	607	Q8L	N4-C10-N5-C11
6	C	603	Q8L	N4-C10-N5-C11
6	A	605	Q8L	O3-C2-C3-N
6	C	603	Q8L	O3-C2-C3-N

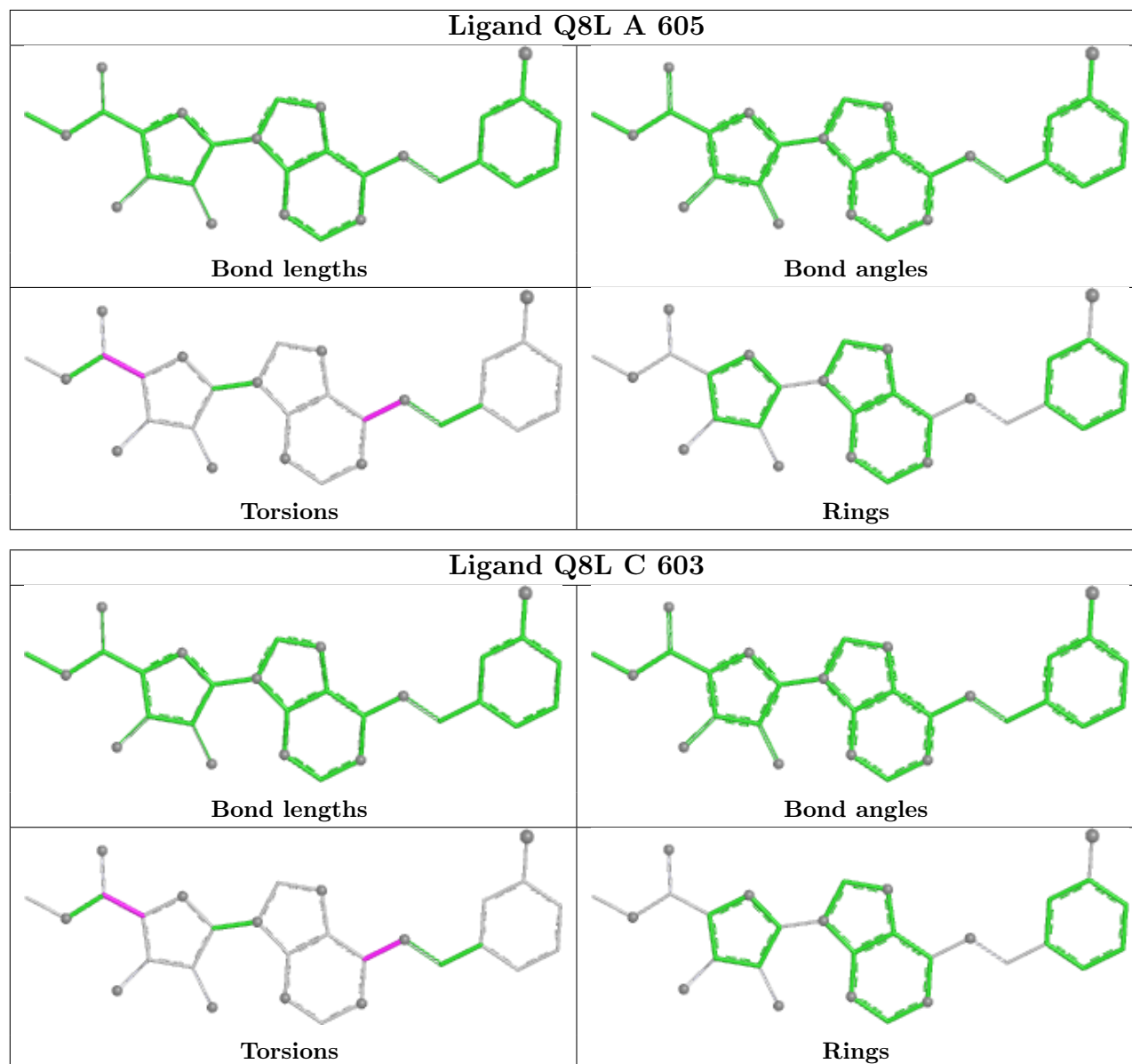
There are no ring outliers.

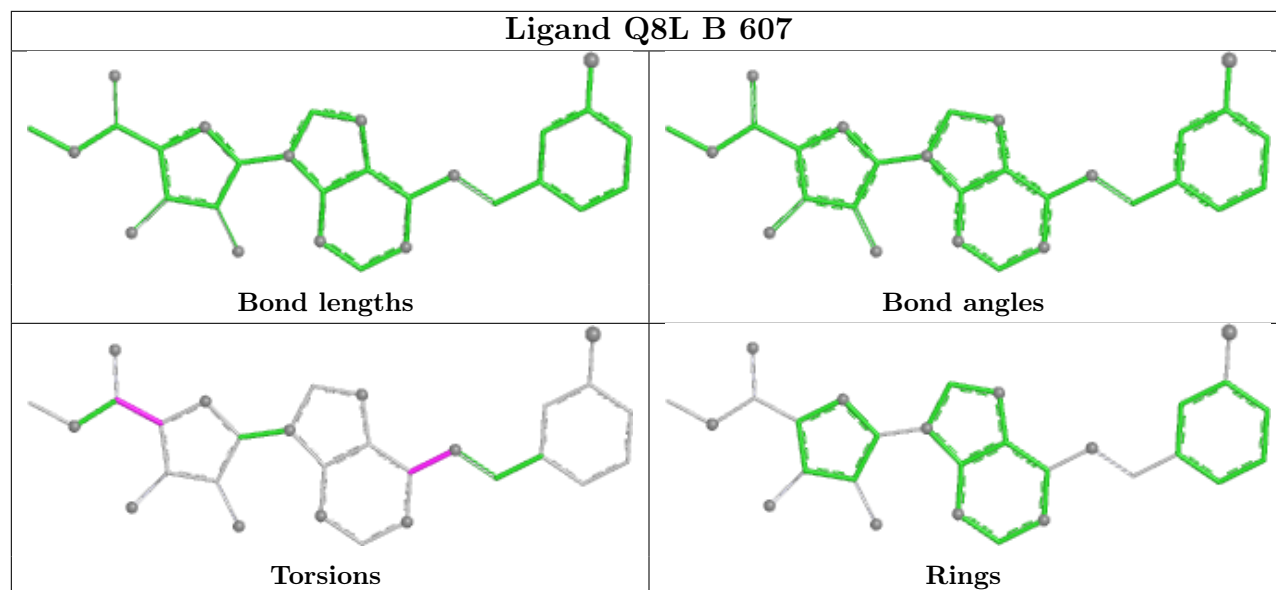
4 monomers are involved in 5 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	A	605	Q8L	1	0
5	B	606	EDO	1	0
5	A	603	EDO	1	0
6	C	603	Q8L	2	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 [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	A	543/578 (93%)	-0.15	14 (2%) 57 49	21, 47, 82, 139	1 (0%)
1	B	549/578 (94%)	-0.19	16 (2%) 53 46	25, 45, 79, 188	1 (0%)
1	C	538/578 (93%)	0.21	25 (4%) 37 31	38, 64, 115, 164	0
2	D	14/14 (100%)	-0.15	1 (7%) 22 17	33, 40, 123, 143	0
2	F	14/14 (100%)	-0.71	0 100 100	32, 37, 76, 76	0
2	H	14/14 (100%)	-0.01	1 (7%) 22 17	45, 59, 131, 158	0
3	E	14/14 (100%)	-0.19	1 (7%) 22 17	37, 44, 148, 175	0
3	G	14/14 (100%)	-0.66	0 100 100	34, 39, 66, 66	0
3	I	14/14 (100%)	-0.14	1 (7%) 22 17	47, 54, 147, 195	0
All	All	1714/1818 (94%)	-0.06	59 (3%) 48 41	21, 51, 101, 195	2 (0%)

The worst 5 of 59 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	273	THR	4.3
1	B	135	ASP	4.2
1	B	137	ASP	4.0
1	C	272	GLU	3.9
1	B	29	ILE	3.8

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

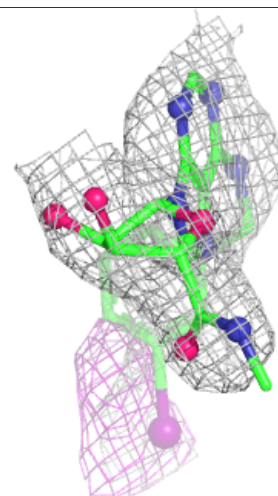
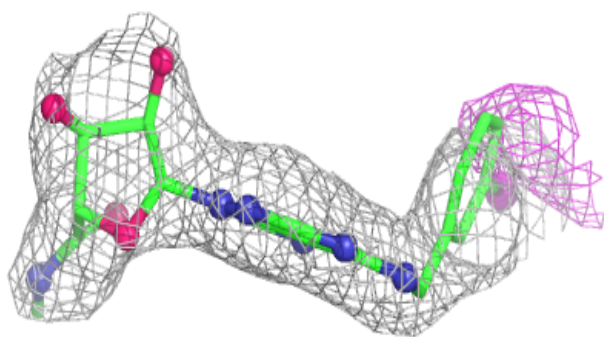
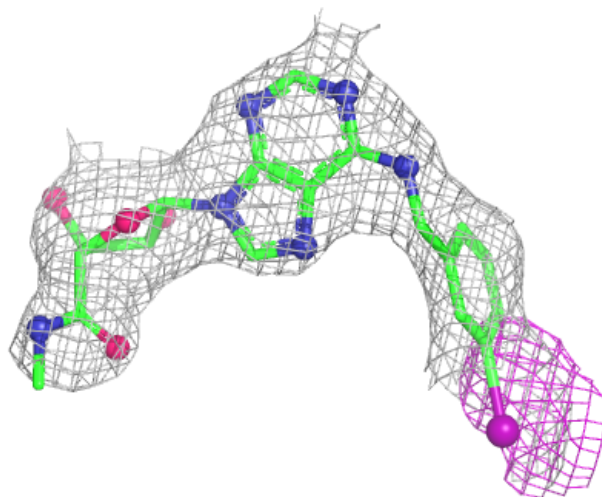
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
5	EDO	A	603	4/4	0.75	0.22	55,56,60,62	0
4	K	C	602	1/1	0.83	0.13	89,89,89,89	0
4	K	B	603	1/1	0.84	0.10	85,85,85,85	0
5	EDO	B	606	4/4	0.84	0.21	63,65,66,85	0
6	Q8L	C	603	29/29	0.88	0.13	74,84,118,151	0
5	EDO	A	604	4/4	0.90	0.13	54,66,67,72	0
6	Q8L	B	607	29/29	0.92	0.09	44,51,70,139	0
5	EDO	B	605	4/4	0.92	0.25	52,58,61,66	0
4	K	C	601	1/1	0.93	0.07	72,72,72,72	0
6	Q8L	A	605	29/29	0.93	0.10	52,58,74,137	0
4	K	B	602	1/1	0.94	0.05	58,58,58,58	0
5	EDO	B	604	4/4	0.95	0.09	36,41,49,56	0
4	K	B	601	1/1	0.95	0.07	60,60,60,60	0
4	K	A	601	1/1	0.96	0.06	58,58,58,58	0
4	K	A	602	1/1	0.98	0.06	73,73,73,73	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.

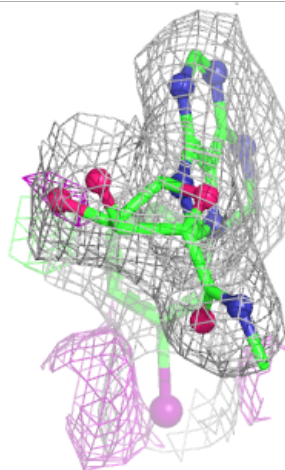
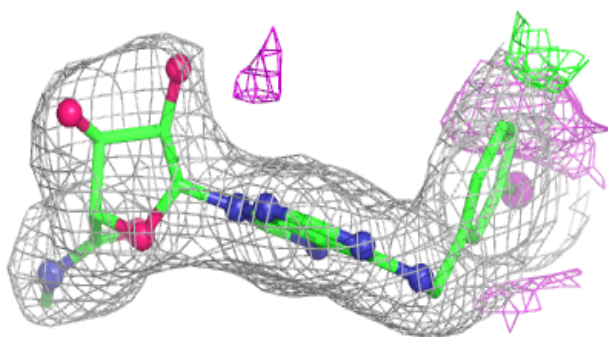
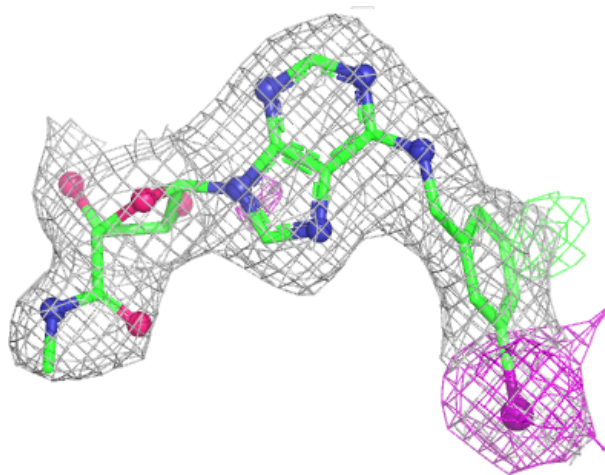
Electron density around Q8L C 603:

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



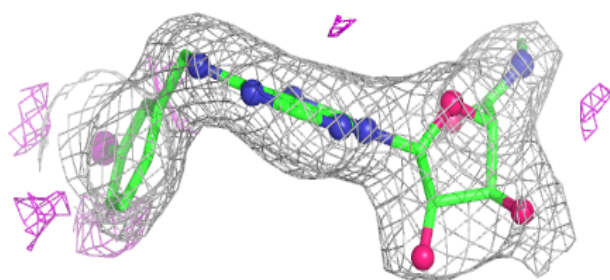
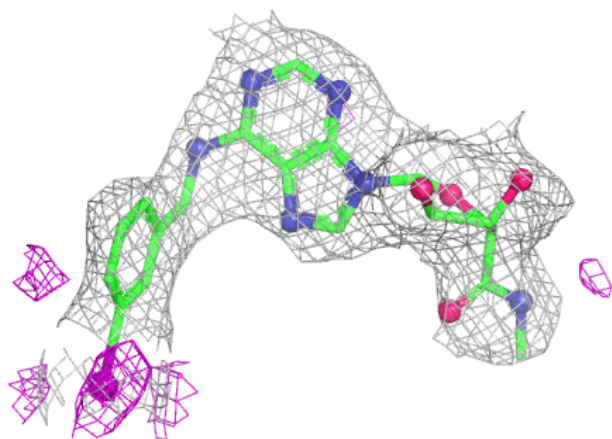
Electron density around Q8L B 607:

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



Electron density around Q8L A 605:

$2mF_o-DF_c$ (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.