



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 04:39 PM UTC

PDB ID : 7XI0 / pdb_00007xi0
Title : Crystal structure of CBP bromodomain liganded with CCS150
Authors : Xu, H.; Xiang, Q.; Wang, C.; Zhang, C.; Luo, G.; Wu, X.; Zhang, Y.; Xu, Y.
Deposited on : 2022-04-11
Resolution : 1.62 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

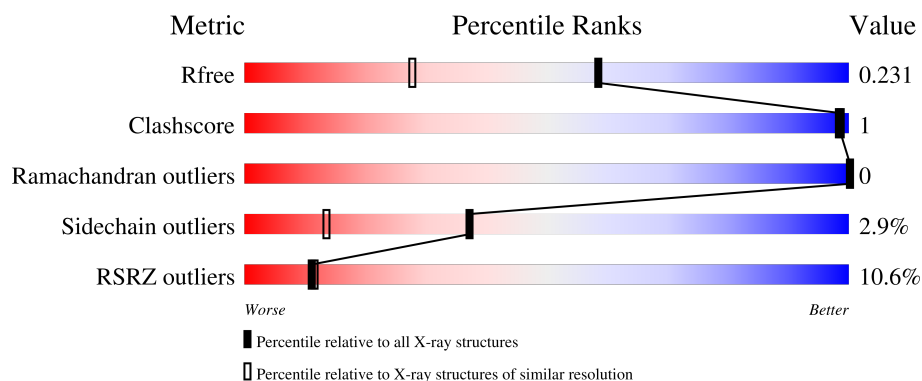
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.62 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	6728 (1.64-1.60)
Clashscore	190562	7023 (1.64-1.60)
Ramachandran outliers	187476	6898 (1.64-1.60)
Sidechain outliers	187428	6896 (1.64-1.60)
RSRZ outliers	180081	6727 (1.64-1.60)

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	133	3% 83% 14%
1	B	133	15% 81% 16%

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 2130 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 CREB-binding protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	114	Total	C	N	O	S	0	2	0
			973	630	160	178	5			
1	B	112	Total	C	N	O	S	0	1	0
			935	609	151	170	5			

There are 32 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1065	MET	-	expression tag	UNP Q92793
A	1066	LYS	-	expression tag	UNP Q92793
A	1067	LYS	-	expression tag	UNP Q92793
A	1068	GLY	-	expression tag	UNP Q92793
A	1069	HIS	-	expression tag	UNP Q92793
A	1070	HIS	-	expression tag	UNP Q92793
A	1071	HIS	-	expression tag	UNP Q92793
A	1072	HIS	-	expression tag	UNP Q92793
A	1073	HIS	-	expression tag	UNP Q92793
A	1074	HIS	-	expression tag	UNP Q92793
A	1075	LEU	-	expression tag	UNP Q92793
A	1076	VAL	-	expression tag	UNP Q92793
A	1077	PRO	-	expression tag	UNP Q92793
A	1078	ARG	-	expression tag	UNP Q92793
A	1079	GLY	-	expression tag	UNP Q92793
A	1080	SER	-	expression tag	UNP Q92793
B	1065	MET	-	expression tag	UNP Q92793
B	1066	LYS	-	expression tag	UNP Q92793
B	1067	LYS	-	expression tag	UNP Q92793
B	1068	GLY	-	expression tag	UNP Q92793
B	1069	HIS	-	expression tag	UNP Q92793
B	1070	HIS	-	expression tag	UNP Q92793
B	1071	HIS	-	expression tag	UNP Q92793
B	1072	HIS	-	expression tag	UNP Q92793
B	1073	HIS	-	expression tag	UNP Q92793

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Chain	Residue	Modelled	Actual	Comment	Reference
B	1074	HIS	-	expression tag	UNP Q92793
B	1075	LEU	-	expression tag	UNP Q92793
B	1076	VAL	-	expression tag	UNP Q92793
B	1077	PRO	-	expression tag	UNP Q92793
B	1078	ARG	-	expression tag	UNP Q92793
B	1079	GLY	-	expression tag	UNP Q92793
B	1080	SER	-	expression tag	UNP Q92793

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Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
2	A	1	Total 41	C 29	Cl 1	N 5	O 5	S 1	0	0
2	B	1	Total 41	C 29	Cl 1	N 5	O 5	S 1	0	0

- WORLDWIDE
PDB
PROTEIN DATA BANK



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

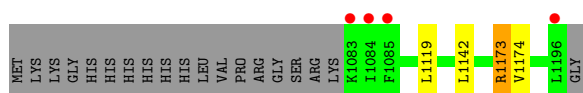
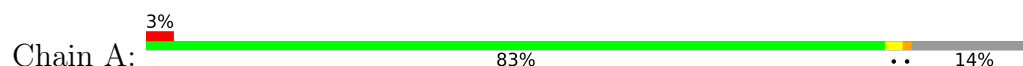
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	92	Total	O	0	0
			92	92		
4	B	42	Total	O	0	0
			42	42		

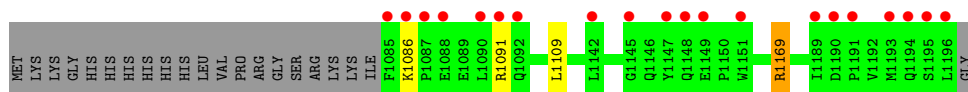
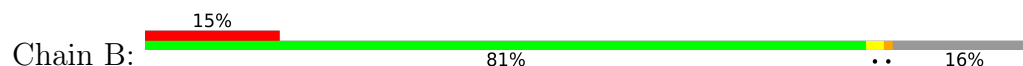
3 Residue-property plots [i](#)

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: CREB-binding protein



- Molecule 1: CREB-binding protein



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	48.54Å 33.84Å 78.70Å 90.00° 94.65° 90.00°	Depositor
Resolution (Å)	30.00 – 1.62 30.00 – 1.62	Depositor EDS
% Data completeness (in resolution range)	95.5 (30.00-1.62) 95.5 (30.00-1.62)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	4.66 (at 1.62Å)	Xtriage
Refinement program	REFMAC 5.8.0189	Depositor
R, R_{free}	0.192 , 0.224 0.201 , 0.231	Depositor DCC
R_{free} test set	1579 reflections (4.79%)	wwPDB-VP
Wilson B-factor (Å ²)	15.1	Xtriage
Anisotropy	0.309	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.37 , 38.1	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	0.95	EDS
Total number of atoms	2130	wwPDB-VP
Average B, all atoms (Å ²)	22.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 10.07% 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: EL0, GOL

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	0.92	0/1000	1.02	1/1359 (0.1%)
1	B	0.72	0/965	0.93	1/1313 (0.1%)
All	All	0.83	0/1965	0.98	2/2672 (0.1%)

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	1169	ARG	NE-CZ-NH2	6.00	124.60	119.20
1	A	1173	ARG	NE-CZ-NH2	5.81	124.43	119.20

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	973	0	950	2	0
1	B	935	0	912	0	0
2	A	41	0	0	0	0
2	B	41	0	0	0	0
3	A	6	0	8	0	0
4	A	92	0	0	2	0
4	B	42	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
All	All	2130	0	1870	2	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 1.

All (2) 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:1174[A]:VAL:HG23	4:A:1374:HOH:O	2.00	0.60
1:A:1173:ARG:HD2	4:A:1375:HOH:O	2.17	0.43

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	114/133 (86%)	114 (100%)	0	0	100	100
1	B	111/133 (84%)	111 (100%)	0	0	100	100
All	All	225/266 (85%)	225 (100%)	0	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	108/124 (87%)	106 (98%)	2 (2%)	50	26
1	B	103/124 (83%)	99 (96%)	4 (4%)	28	8
All	All	211/248 (85%)	205 (97%)	6 (3%)	37	14

All (6) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1119	LEU
1	A	1142	LEU
1	B	1086	LYS
1	B	1091	ARG
1	B	1109	LEU
1	B	1169	ARG

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	1146	GLN
1	A	1187	GLN
1	A	1194	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

3 ligands 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
2	EL0	B	1201	-	44,46,46	2.25	10 (22%)	57,70,70	2.57	20 (35%)
3	GOL	A	1202	-	5,5,5	0.25	0	5,5,5	0.39	0
2	EL0	A	1201	-	44,46,46	2.52	13 (29%)	57,70,70	3.02	24 (42%)

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	EL0	B	1201	-	-	8/24/47/47	0/6/6/6
3	GOL	A	1202	-	-	2/4/4/4	-
2	EL0	A	1201	-	-	6/24/47/47	0/6/6/6

All (23) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	1201	EL0	OBC-SBB	7.01	1.54	1.43
2	A	1201	EL0	OBD-SBB	6.99	1.54	1.43
2	A	1201	EL0	SBB-NAU	6.86	1.74	1.63
2	A	1201	EL0	OBC-SBB	6.52	1.53	1.43
2	B	1201	EL0	CAY-CAZ	-6.02	1.38	1.51
2	A	1201	EL0	CAR-NBA	5.18	1.54	1.47
2	B	1201	EL0	CAR-NBA	5.15	1.54	1.47
2	A	1201	EL0	CAH-CAA	-4.84	1.40	1.49
2	B	1201	EL0	OBD-SBB	4.45	1.50	1.43
2	B	1201	EL0	CAH-CAA	-4.21	1.41	1.49
2	A	1201	EL0	CAA-CAB	-3.84	1.35	1.42
2	B	1201	EL0	CAA-CAB	-3.25	1.36	1.42
2	B	1201	EL0	CAK-CAL	-2.89	1.35	1.40
2	A	1201	EL0	CAK-CAL	-2.71	1.35	1.40
2	A	1201	EL0	CAW-CAR	2.63	1.59	1.53
2	A	1201	EL0	CAY-CAZ	-2.61	1.45	1.51
2	B	1201	EL0	CBG-NBA	-2.59	1.38	1.43
2	B	1201	EL0	CBK-CL	-2.55	1.67	1.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	1201	EL0	CBG-NBA	-2.42	1.39	1.43
2	A	1201	EL0	OAD-CAE	-2.33	1.30	1.34
2	A	1201	EL0	OAD-NAC	2.30	1.46	1.42
2	A	1201	EL0	CAJ-CAK	-2.23	1.36	1.39
2	B	1201	EL0	CAX-CAY	-2.04	1.45	1.52

All (44) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	1201	EL0	OBD-SBB-NAU	11.67	116.76	107.02
2	A	1201	EL0	CBE-SBB-NAU	-8.98	96.72	107.27
2	B	1201	EL0	OBC-SBB-NAU	7.38	113.19	107.02
2	A	1201	EL0	OBC-SBB-NAU	6.11	112.12	107.02
2	A	1201	EL0	NAN-CAO-NAP	-6.02	108.46	113.13
2	B	1201	EL0	NAN-CAO-NAP	-5.94	108.52	113.13
2	B	1201	EL0	OBD-SBB-OBC	-5.82	109.75	118.46
2	B	1201	EL0	CAF-CAE-CAA	-5.10	126.91	133.91
2	A	1201	EL0	CAS-CAQ-CAV	4.94	110.56	102.22
2	B	1201	EL0	CBE-SBB-NAU	-4.84	101.59	107.27
2	B	1201	EL0	CAS-CAQ-CAV	4.51	109.82	102.22
2	B	1201	EL0	CAL-NAP-CAO	4.33	109.38	104.75
2	B	1201	EL0	OBC-SBB-CBE	4.27	114.15	108.30
2	A	1201	EL0	CAL-NAP-CAO	4.26	109.31	104.75
2	B	1201	EL0	CAI-CAH-CAM	-4.10	114.51	119.25
2	B	1201	EL0	CAH-CAM-CAL	3.97	124.05	118.61
2	A	1201	EL0	CAF-CAE-CAA	-3.92	128.52	133.91
2	B	1201	EL0	OBD-SBB-NAU	3.91	110.28	107.02
2	A	1201	EL0	OBF-CAZ-NBA	-3.84	117.51	122.52
2	A	1201	EL0	CAX-CAW-CAR	-3.51	102.81	110.97
2	A	1201	EL0	CAX-CAY-CAZ	-3.48	107.86	114.62
2	B	1201	EL0	CAJ-CAK-CAL	-3.34	118.37	122.23
2	A	1201	EL0	CAJ-CAK-CAL	-3.22	118.52	122.23
2	A	1201	EL0	CAE-CAA-CAB	3.22	106.25	104.38
2	A	1201	EL0	CAI-CAH-CAM	-3.21	115.54	119.25
2	A	1201	EL0	CAH-CAM-CAL	3.09	122.84	118.61
2	B	1201	EL0	OBF-CAZ-NBA	-2.97	118.66	122.52
2	B	1201	EL0	CBL-CBG-NBA	2.96	122.31	119.36
2	A	1201	EL0	OBD-SBB-OBC	-2.90	114.13	118.46
2	A	1201	EL0	CBL-CBK-CBJ	-2.71	117.58	121.01
2	B	1201	EL0	CAL-CAK-NAN	2.69	107.37	105.12
2	B	1201	EL0	OAD-CAE-CAF	2.68	120.74	116.59
2	A	1201	EL0	OBN-CBJ-CBK	-2.61	114.17	116.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	1201	EL0	CBG-CBL-CBK	2.60	122.25	119.44
2	A	1201	EL0	CAE-OAD-NAC	-2.55	105.67	108.51
2	B	1201	EL0	CAY-CAZ-NBA	2.40	122.33	116.93
2	B	1201	EL0	CAK-CAL-NAP	-2.37	107.18	110.19
2	A	1201	EL0	CBL-CBK-CL	2.30	122.21	118.45
2	B	1201	EL0	CAE-OAD-NAC	-2.29	105.96	108.51
2	A	1201	EL0	CBL-CBG-NBA	2.13	121.49	119.36
2	A	1201	EL0	CAK-CAL-NAP	-2.13	107.48	110.19
2	A	1201	EL0	CAJ-CAK-NAN	2.04	134.73	130.55
2	A	1201	EL0	CAM-CAH-CAA	2.01	123.84	120.17
2	B	1201	EL0	CAX-CAW-CAR	-2.00	106.32	110.97

There are no chirality outliers.

All (16) torsion outliers are listed below:

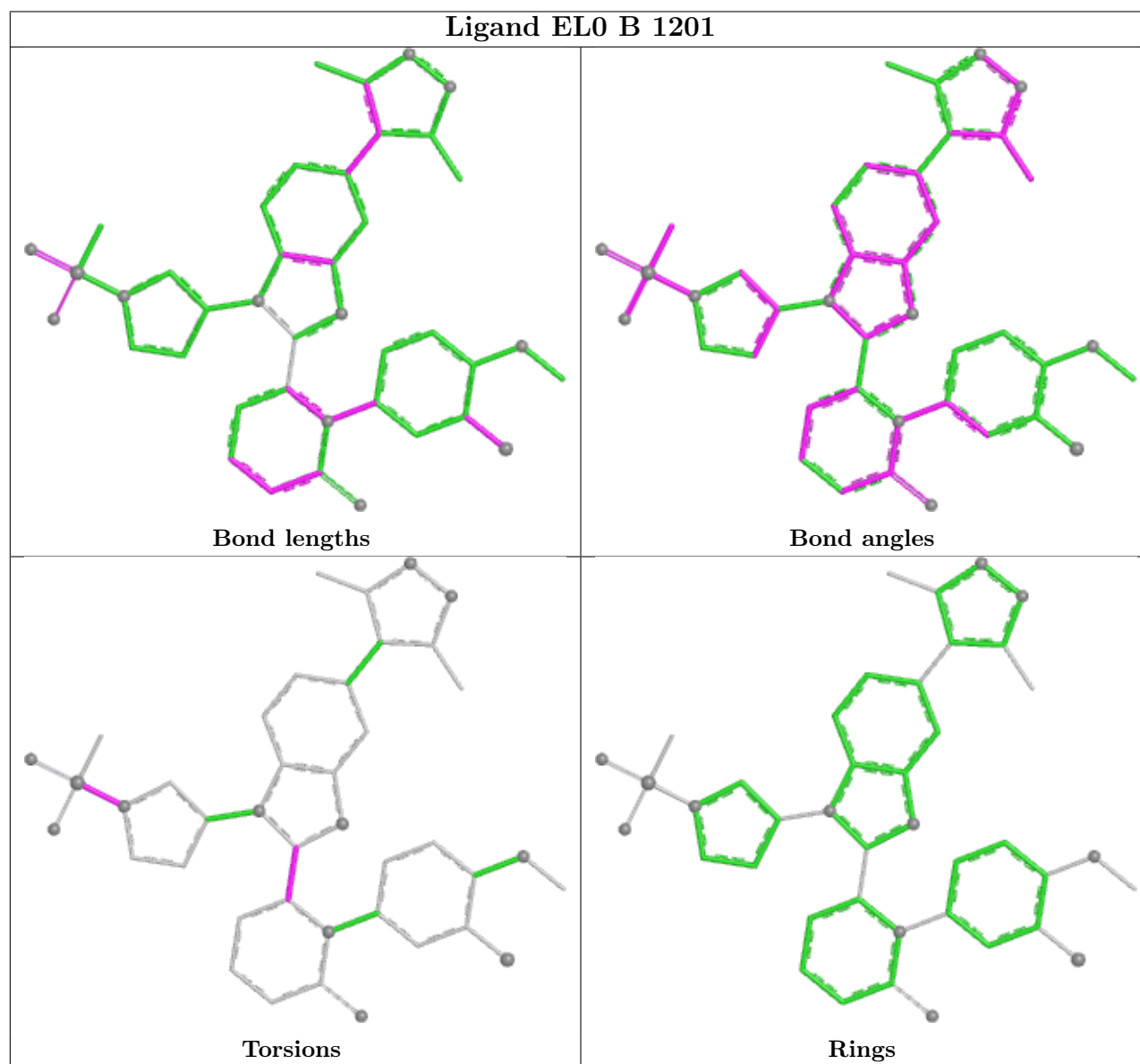
Mol	Chain	Res	Type	Atoms
2	A	1201	EL0	CAV-NAU-SBB-OBC
2	A	1201	EL0	CAV-NAU-SBB-CBE
2	B	1201	EL0	NAP-CAO-CAR-NBA
2	B	1201	EL0	NAN-CAO-CAR-NBA
2	B	1201	EL0	CAV-NAU-SBB-CBE
3	A	1202	GOL	O1-C1-C2-C3
3	A	1202	GOL	O1-C1-C2-O2
2	A	1201	EL0	CAT-NAU-SBB-OB
2	B	1201	EL0	CAV-NAU-SBB-OBC
2	B	1201	EL0	CAT-NAU-SBB-OB
2	A	1201	EL0	CAV-NAU-SBB-OB
2	A	1201	EL0	CAT-NAU-SBB-OBC
2	A	1201	EL0	CAT-NAU-SBB-CBE
2	B	1201	EL0	CAV-NAU-SBB-OB
2	B	1201	EL0	CAT-NAU-SBB-OBC
2	B	1201	EL0	CAT-NAU-SBB-CBE

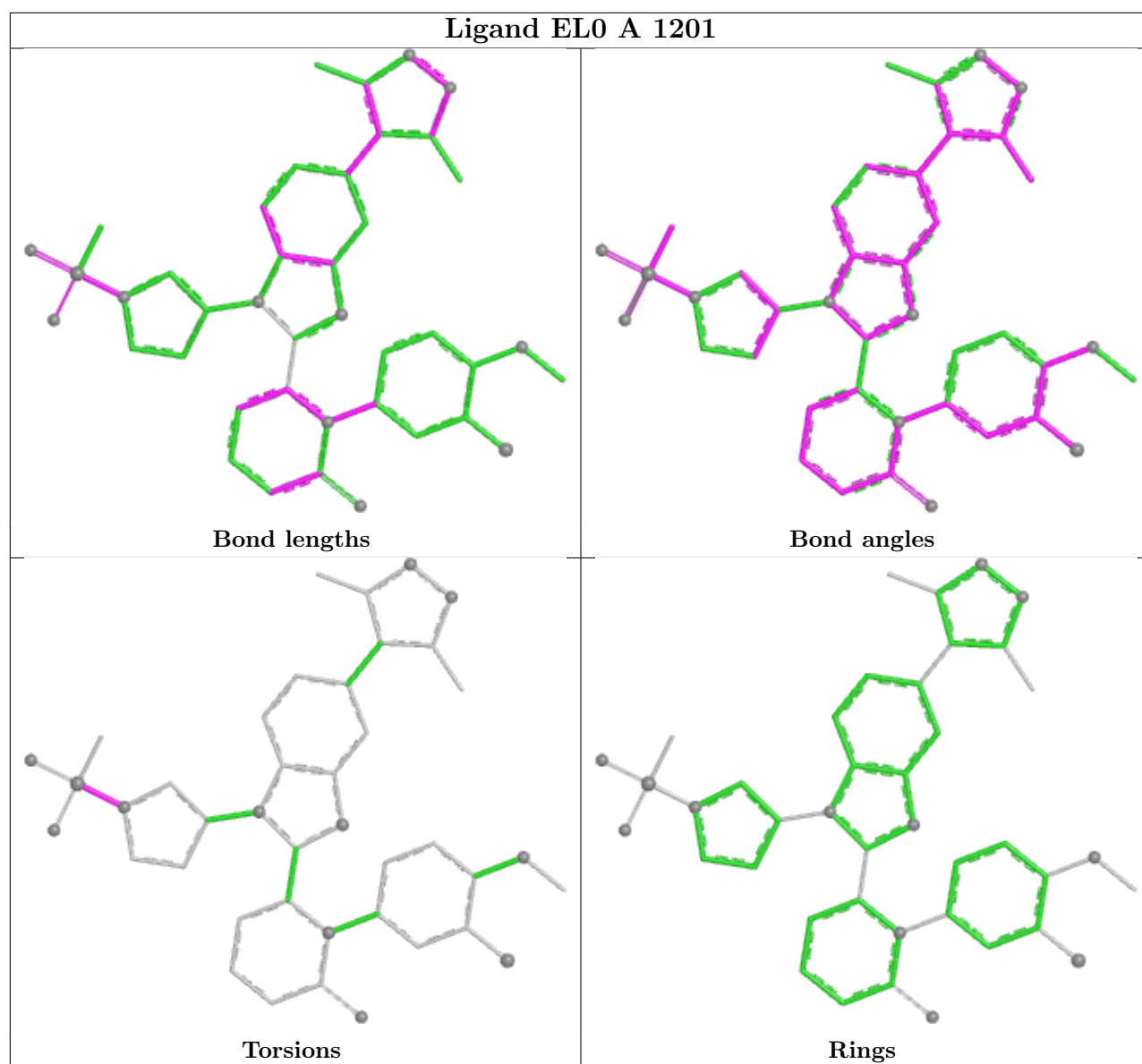
There are no ring outliers.

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 [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	114/133 (85%)	0.18	4 (3%)	47 50	4, 14, 36, 63	2 (1%)
1	B	112/133 (84%)	1.03	20 (17%)	3 3	10, 26, 51, 63	1 (0%)
All	All	226/266 (84%)	0.60	24 (10%)	11 11	4, 20, 45, 63	3 (1%)

All (24) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	1085	PHE	4.5
1	B	1196	LEU	4.5
1	A	1084	ILE	4.4
1	B	1151	TRP	4.1
1	A	1083	LYS	3.7
1	B	1145	GLY	3.5
1	B	1090	LEU	3.3
1	B	1085	PHE	3.3
1	B	1148	GLN	2.8
1	B	1091	ARG	2.6
1	A	1196	LEU	2.6
1	B	1147	TYR	2.6
1	B	1149	GLU	2.6
1	B	1193	MET	2.5
1	B	1190	ASP	2.4
1	B	1088	GLU	2.4
1	B	1194	GLN	2.3
1	B	1087	PRO	2.2
1	B	1195	SER	2.2
1	B	1086	LYS	2.2
1	B	1189	ILE	2.1
1	B	1092	GLN	2.0
1	B	1142	LEU	2.0
1	B	1191	PRO	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](#)

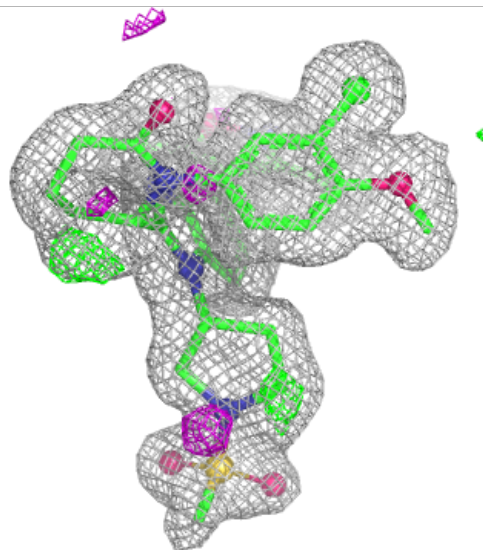
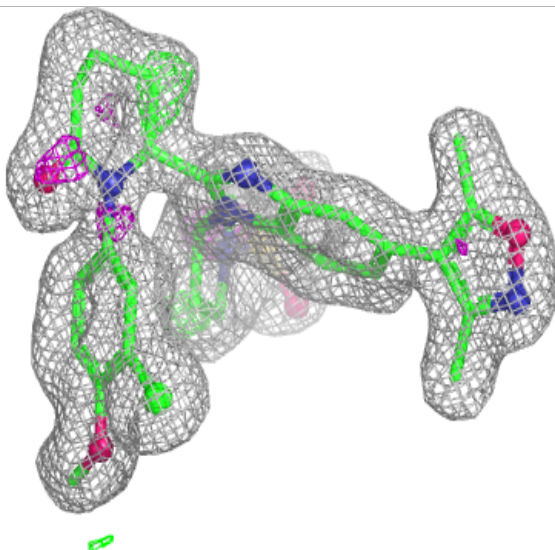
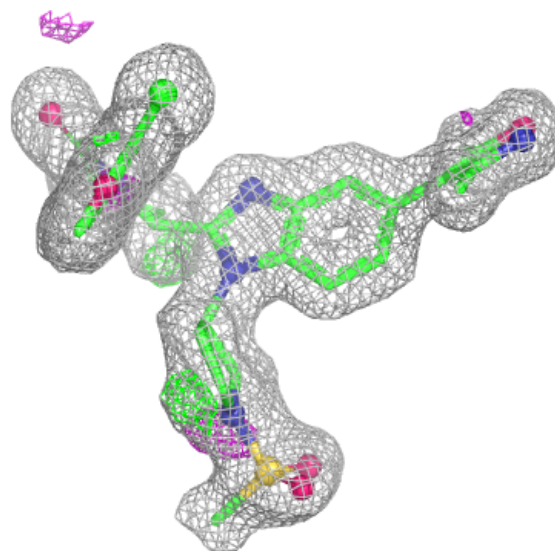
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
3	GOL	A	1202	6/6	0.84	0.15	28,31,34,37	0
2	EL0	B	1201	41/41	0.94	0.09	14,18,26,32	0
2	EL0	A	1201	41/41	0.96	0.07	9,13,22,27	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.

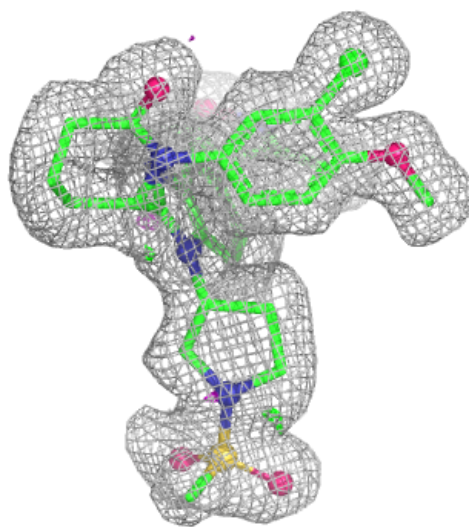
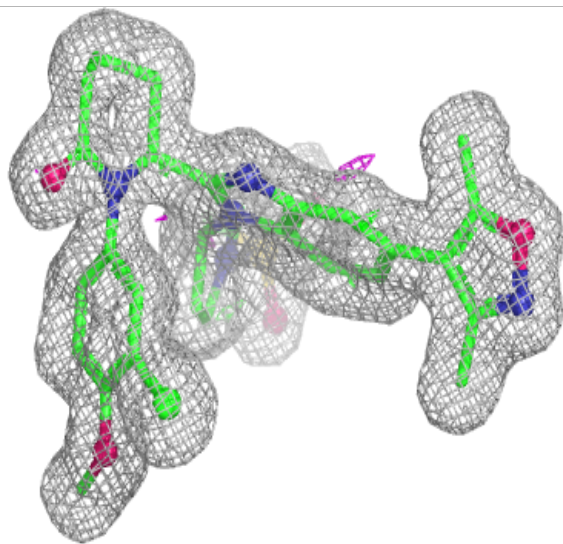
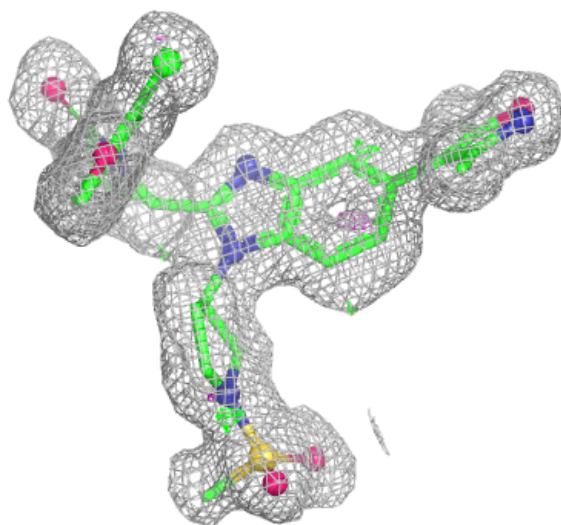
Electron density around EL0 B 1201:

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



Electron density around EL0 A 1201:

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



6.5 Other polymers [i](#)

There are no such residues in this entry.