



Full wwPDB X-ray Structure Validation Report ⓘ

Oct 6, 2025 – 12:17 PM EDT

PDB ID : 9Y76 / pdb_00009y76
Title : Crystal structure of the human DCAF1 WDR domain in complex with OICR-40120
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Deposited on : 2025-09-09
Resolution : 1.56 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](#) ①) 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	:	1.1.7 (2018)
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
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)	:	2.46

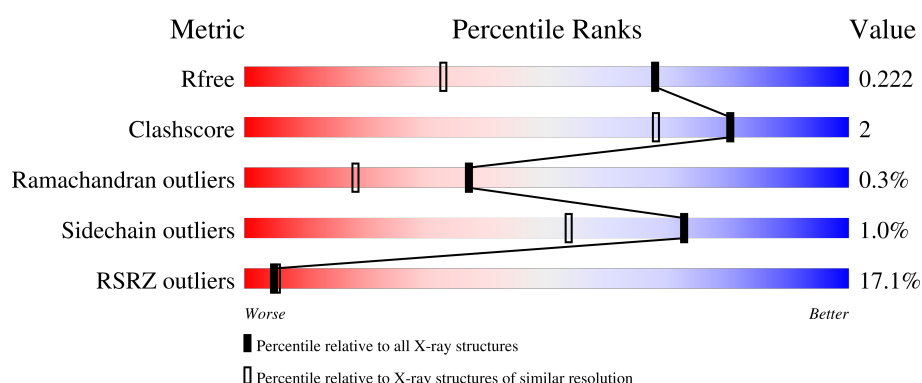
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.56 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	164625	1935 (1.56-1.56)
Clashscore	180529	2073 (1.56-1.56)
Ramachandran outliers	177936	2037 (1.56-1.56)
Sidechain outliers	177891	2034 (1.56-1.56)
RSRZ outliers	164620	1935 (1.56-1.56)

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	315	<div> <div>18%</div> <div>88%</div> <div>7%</div> <div>5%</div> </div>
1	B	315	<div> <div>15%</div> <div>88%</div> <div>6%</div> <div>6%</div> </div>

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 5236 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.

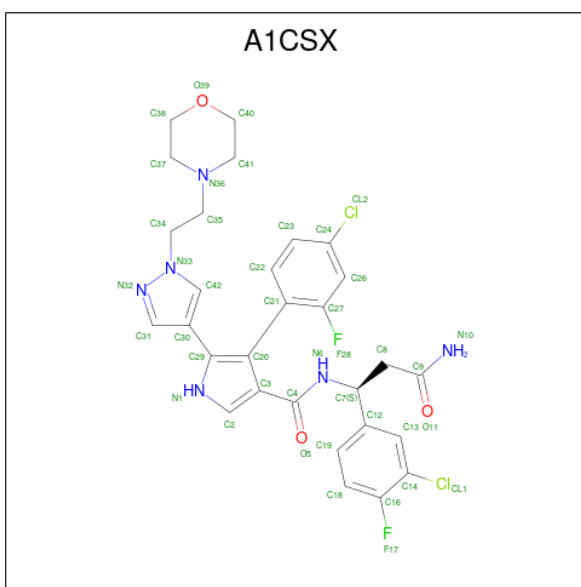
- Molecule 1 is a protein called DDB1- and CUL4-associated factor 1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	300	Total	C	N	O	S	0	5	0
			2354	1493	391	452	18			
1	B	296	Total	C	N	O	S	0	8	1
			2368	1501	396	454	17			

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1076	GLY	-	expression tag	UNP Q9Y4B6
A	1077	ALA	PHE	engineered mutation	UNP Q9Y4B6
A	1079	ALA	ARG	engineered mutation	UNP Q9Y4B6
B	1076	GLY	-	expression tag	UNP Q9Y4B6
B	1077	ALA	PHE	engineered mutation	UNP Q9Y4B6
B	1079	ALA	ARG	engineered mutation	UNP Q9Y4B6

- Molecule 2 is (4P,5M)-N-[(1S)-3-amino-1-(3-chloro-4-fluorophenyl)-3-oxopropyl]-4-(4-chloro-2-fluorophenyl)-5-{1-[2-(morpholin-4-yl)ethyl]-1H-pyrazol-4-yl}-1H-pyrrole-3-carboxamide (CCD ID: A1CSX) (formula: C₂₉H₂₈Cl₂F₂N₆O₃) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
2	A	1	Total	C	Cl	F	N	O	0	0
			42	29	2	2	6	3		
2	B	1	Total	C	Cl	F	N	O	0	0
			42	29	2	2	6	3		

- Molecule 3 is UNKNOWN LIGAND (CCD ID: UNX) (formula: X).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	1	Total	X	0	0
			1	1		

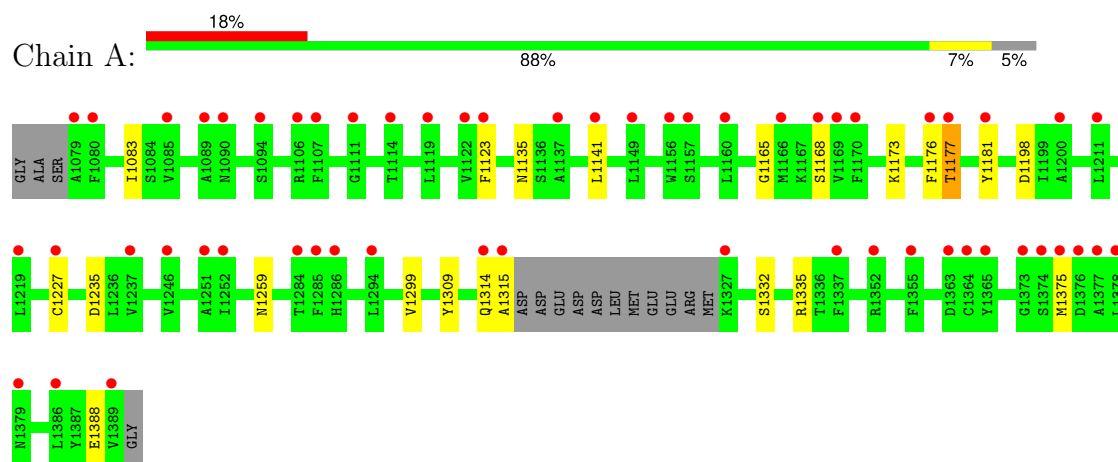
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	205	Total	O	0	3
			208	208		
4	B	218	Total	O	0	3
			221	221		

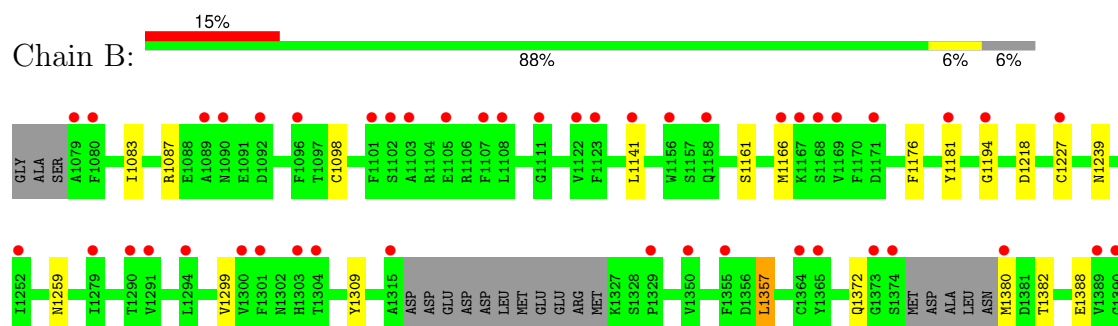
3 Residue-property plots

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: DDB1- and CUL4-associated factor 1



- Molecule 1: DDB1- and CUL4-associated factor 1



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	48.95Å 88.41Å 73.56Å 90.00° 97.86° 90.00°	Depositor
Resolution (Å)	38.83 – 1.56 38.83 – 1.56	Depositor EDS
% Data completeness (in resolution range)	98.0 (38.83-1.56) 98.1 (38.83-1.56)	Depositor EDS
R_{merge}	0.04	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.49 (at 1.56Å)	Xtriage
Refinement program	REFMAC 5.8.0430	Depositor
R, R_{free}	0.167 , 0.208 0.191 , 0.222	Depositor DCC
R_{free} test set	4206 reflections (4.76%)	wwPDB-VP
Wilson B-factor (Å ²)	21.4	Xtriage
Anisotropy	0.494	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 100.0	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	0.90	EDS
Total number of atoms	5236	wwPDB-VP
Average B, all atoms (Å ²)	29.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.58% 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: UNX, A1CSX

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	0.62	0/2413	0.89	1/3279 (0.0%)
1	B	0.74	2/2422 (0.1%)	0.94	1/3291 (0.0%)
All	All	0.68	2/4835 (0.0%)	0.92	2/6570 (0.0%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1239	ASN	C-O	10.20	1.35	1.23
1	B	1194	GLY	C-O	5.08	1.30	1.23

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	1218	ASP	CA-CB-CG	7.68	120.28	112.60
1	A	1198	ASP	CA-CB-CG	6.59	119.19	112.60

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	1335	ARG	Sidechain

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	2354	0	2207	13	0
1	B	2368	0	2222	10	0
2	A	42	0	0	1	0
2	B	42	0	0	1	0
3	A	1	0	0	0	0
4	A	208	0	0	1	0
4	B	221	0	0	0	0
All	All	5236	0	4429	23	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 (23) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1083:ILE:HD11	1:B:1388:GLU:HG3	1.66	0.78
1:B:1227[A]:CYS:SG	2:B:1401:A1CSX:CL2	2.84	0.72
1:A:1181:TYR:CD2	1:A:1227[B]:CYS:SG	2.83	0.70
1:A:1227[B]:CYS:SG	2:A:1401:A1CSX:CL2	2.88	0.69
1:B:1181:TYR:CD2	1:B:1227[A]:CYS:SG	2.85	0.60
1:B:1181:TYR:CE2	1:B:1227[A]:CYS:SG	2.95	0.59
1:A:1314:GLN:O	1:A:1315:ALA:C	2.46	0.58
1:B:1087:ARG:NH2	1:B:1372[B]:GLN:OE1	2.37	0.57
1:A:1141:LEU:C	1:A:1141:LEU:HD12	2.30	0.57
1:A:1123:PHE:HB2	4:A:1629:HOH:O	2.06	0.55
1:A:1332:SER:HB3	1:A:1375:MET:SD	2.49	0.53
1:A:1083:ILE:CG1	1:A:1388:GLU:HB2	2.40	0.52
1:A:1181:TYR:CE2	1:A:1227[B]:CYS:SG	3.04	0.51
1:A:1176:PHE:O	1:A:1177:THR:C	2.54	0.51
1:A:1083:ILE:HG13	1:A:1388:GLU:HB2	1.94	0.49
1:B:1161[B]:SER:OG	1:B:1176:PHE:HB2	2.13	0.48
1:B:1098:CYS:SG	1:B:1141:LEU:HG	2.54	0.47
1:B:1380:MET:HE3	1:B:1382:THR:OG1	2.15	0.47
1:A:1165:GLY:HA3	1:A:1173:LYS:HE2	1.96	0.46
1:B:1357:LEU:HD12	1:B:1357:LEU:C	2.43	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1299:VAL:HA	1:A:1309:TYR:O	2.19	0.43
1:B:1299:VAL:HA	1:B:1309:TYR:O	2.19	0.42
1:A:1135:ASN:OD1	1:A:1135:ASN:C	2.63	0.41

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	301/315 (96%)	292 (97%)	7 (2%)	2 (1%)	19	5
1	B	298/315 (95%)	292 (98%)	6 (2%)	0	100	100
All	All	599/630 (95%)	584 (98%)	13 (2%)	2 (0%)	37	18

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	1177	THR
1	A	1168	SER

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	253/276 (92%)	251 (99%)	2 (1%)	79	63

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	B	257/276 (93%)	254 (99%)	3 (1%)	67 45
All	All	510/552 (92%)	505 (99%)	5 (1%)	73 53

All (5) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1235	ASP
1	A	1259	ASN
1	B	1166	MET
1	B	1259	ASN
1	B	1357	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

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 ⓘ

Of 3 ligands modelled in this entry, 1 is unknown - leaving 2 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	A1CSX	A	1401	-	42,46,46	0.89	1 (2%)	56,65,65	0.53	0
2	A1CSX	B	1401	-	42,46,46	1.09	5 (11%)	56,65,65	0.50	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
2	A1CSX	A	1401	-	-	0/23/37/37	0/5/5/5
2	A1CSX	B	1401	-	-	0/23/37/37	0/5/5/5

All (6) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	1401	A1CSX	C21-C20	-3.88	1.45	1.50
2	A	1401	A1CSX	C21-C20	-3.63	1.46	1.50
2	B	1401	A1CSX	C35-N36	2.46	1.53	1.47
2	B	1401	A1CSX	C2-N1	2.39	1.39	1.36
2	B	1401	A1CSX	C3-C20	2.29	1.45	1.41
2	B	1401	A1CSX	C20-C29	-2.20	1.38	1.41

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

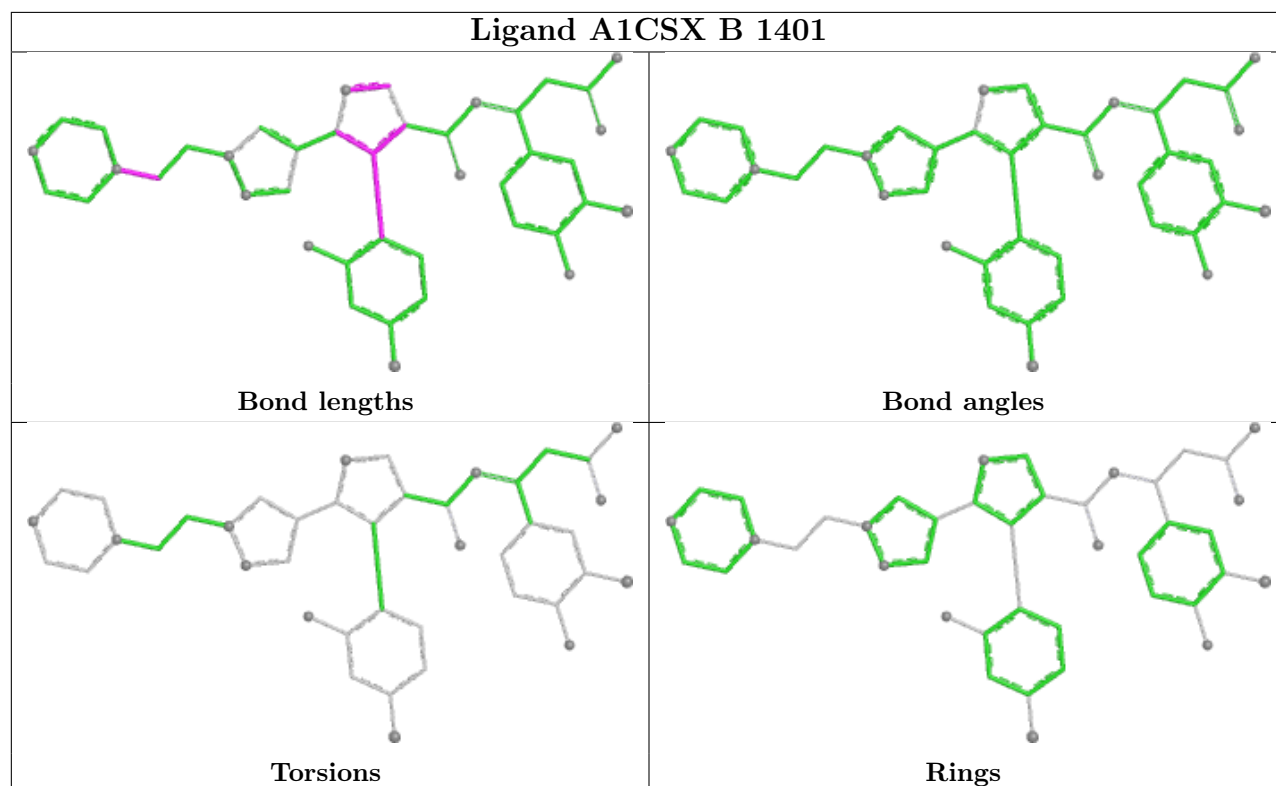
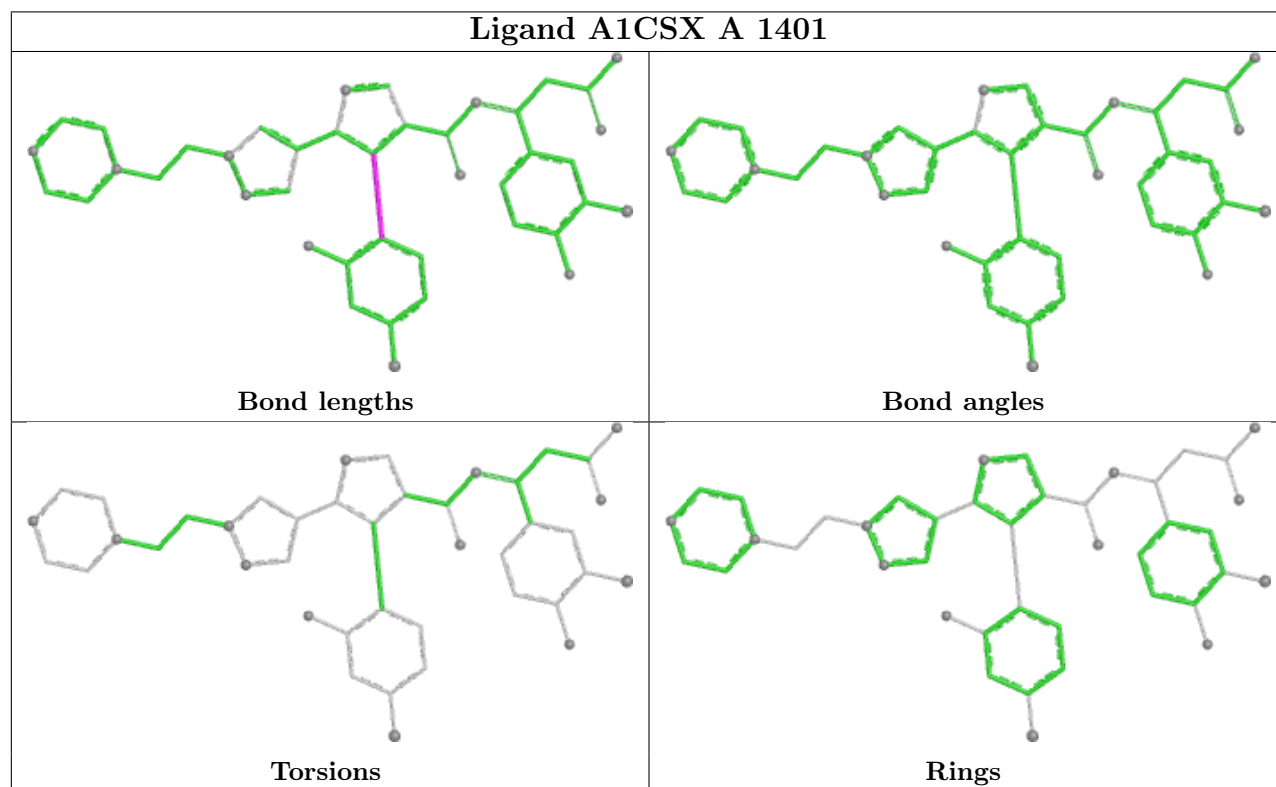
There are no ring outliers.

2 monomers are involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	1401	A1CSX	1	0
2	B	1401	A1CSX	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

There are no such residues in this entry.

5.8 Polymer linkage issues

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	300/315 (95%)	1.48	56 (18%) 4 4	10, 26, 52, 82	5 (1%)
1	B	296/315 (93%)	1.37	46 (15%) 6 7	11, 27, 42, 59	8 (2%)
All	All	596/630 (94%)	1.42	102 (17%) 5 5	10, 27, 47, 82	13 (2%)

All (102) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	1107	PHE	6.2
1	A	1122	VAL	6.0
1	A	1123	PHE	5.9
1	A	1079	ALA	5.1
1	B	1156	TRP	4.7
1	A	1389	VAL	4.3
1	B	1181	TYR	4.1
1	B	1123	PHE	4.1
1	B	1089	ALA	4.0
1	A	1377	ALA	4.0
1	B	1315	ALA	3.9
1	A	1107	PHE	3.8
1	B	1365	TYR	3.7
1	A	1156	TRP	3.7
1	B	1252[A]	ILE	3.7
1	A	1378	LEU	3.6
1	A	1374	SER	3.4
1	A	1080	PHE	3.4
1	B	1304	THR	3.3
1	A	1315	ALA	3.2
1	A	1169	VAL	3.2
1	A	1090	ASN	3.2
1	A	1285	PHE	3.2
1	A	1246	VAL	3.1

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Mol	Chain	Res	Type	RSRZ
1	A	1168	SER	3.1
1	A	1181	TYR	3.1
1	A	1365	TYR	3.1
1	B	1080	PHE	3.0
1	A	1379	ASN	3.0
1	B	1122	VAL	3.0
1	A	1089	ALA	3.0
1	B	1350	VAL	2.9
1	B	1169	VAL	2.9
1	B	1166	MET	2.8
1	A	1373	GLY	2.8
1	B	1111	GLY	2.8
1	B	1374	SER	2.7
1	A	1252	ILE	2.7
1	A	1251	ALA	2.7
1	A	1119	LEU	2.6
1	B	1141	LEU	2.6
1	B	1290	THR	2.6
1	B	1380	MET	2.6
1	B	1194	GLY	2.6
1	B	1373	GLY	2.6
1	A	1364	CYS	2.6
1	A	1376	ASP	2.6
1	A	1286	HIS	2.6
1	B	1355	PHE	2.5
1	B	1090	ASN	2.5
1	B	1103	ALA	2.5
1	A	1177	THR	2.5
1	A	1211	LEU	2.5
1	A	1094	SER	2.5
1	B	1079	ALA	2.5
1	A	1284	THR	2.5
1	A	1141	LEU	2.5
1	B	1227[A]	CYS	2.5
1	A	1219	LEU	2.4
1	A	1375	MET	2.4
1	A	1170	PHE	2.4
1	A	1294	LEU	2.4
1	A	1157	SER	2.4
1	A	1352	ARG	2.4
1	B	1168	SER	2.4
1	B	1364	CYS	2.4

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Mol	Chain	Res	Type	RSRZ
1	B	1303	HIS	2.4
1	A	1227[A]	CYS	2.3
1	A	1363	ASP	2.3
1	B	1171	ASP	2.3
1	B	1101	PHE	2.3
1	A	1327	LYS	2.3
1	A	1160	LEU	2.3
1	A	1386	LEU	2.3
1	B	1291	VAL	2.3
1	B	1158	GLN	2.2
1	A	1166	MET	2.2
1	B	1108	LEU	2.2
1	B	1092	ASP	2.2
1	A	1137	ALA	2.2
1	B	1300	VAL	2.2
1	B	1389	VAL	2.2
1	B	1167	LYS	2.2
1	A	1106	ARG	2.2
1	A	1149	LEU	2.2
1	B	1294	LEU	2.2
1	B	1279	ILE	2.2
1	A	1237	VAL	2.1
1	B	1329	PRO	2.1
1	A	1355	PHE	2.1
1	B	1096	PHE	2.1
1	A	1314	GLN	2.1
1	B	1390	GLY	2.1
1	B	1102	SER	2.1
1	A	1176	PHE	2.1
1	A	1114	THR	2.0
1	A	1111	GLY	2.0
1	A	1337	PHE	2.0
1	B	1301	PHE	2.0
1	A	1200	ALA	2.0
1	A	1085	VAL	2.0
1	B	1105	GLU	2.0

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

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](#)

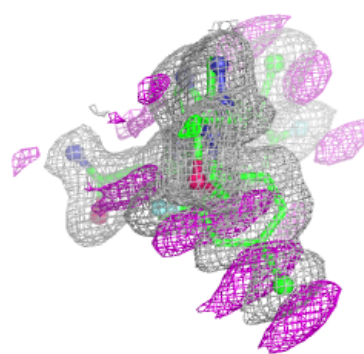
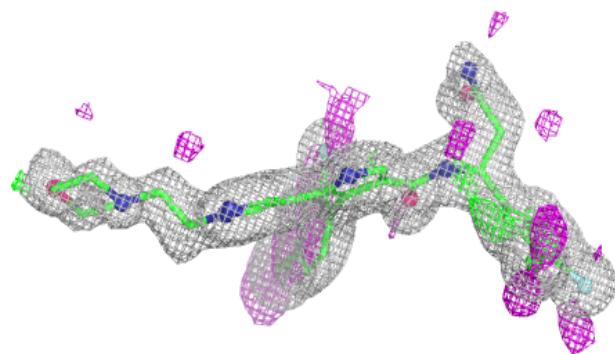
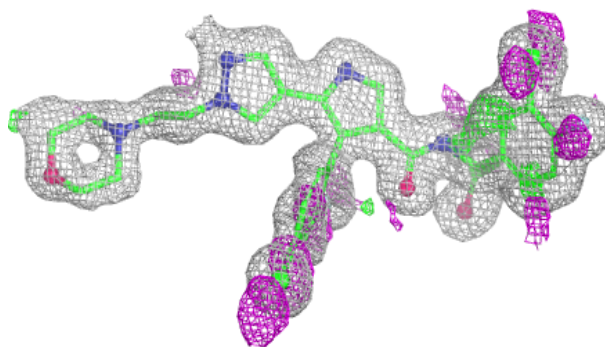
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
3	UNX	A	1402	1/1	0.83	0.28	44,44,44,44	0
2	A1CSX	B	1401	42/42	0.85	0.12	20,23,34,36	0
2	A1CSX	A	1401	42/42	0.85	0.11	18,21,29,30	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.

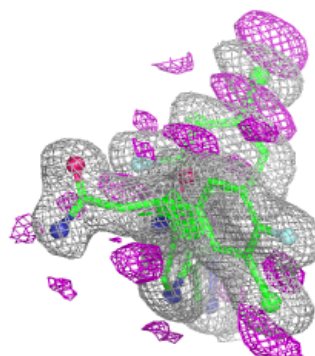
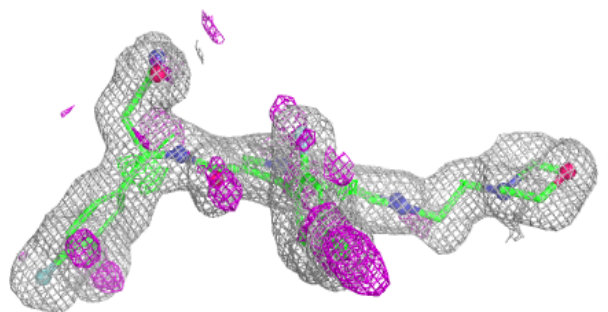
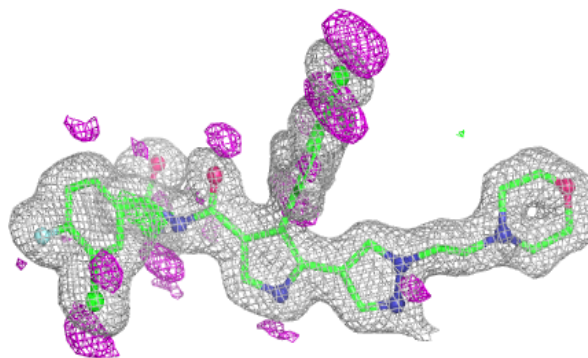
Electron density around A1CSX B 1401:

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 A1CSX A 1401:

$2mF_o - DF_c$ (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.