WORLDWIDE wwPDB PROTEIN DATA BANK

Full wwPDB X-ray Structure Validation Report (i)

Nov 3, 2025 – 10:11 AM EST

PDB ID	:	9YE4 / pdb_00009ye4
Title	:	Crystal structure of the human DCAF1 WDR domain in complex with OICR-41110
Authors	:	kimani, S.; Dong, A.; Li, Y.; Seitova, A.; Mamai, A.; Al-awar, R.; Ackloo, S.; Arrowsmith, C.H.; Edwards, A.M.; Halabelian, L.; Structural Genomics Consortium (SGC)
Deposited on	:	2025-09-23
Resolution	:	1.74 Å(reported)

The following versions of software and data (see references ①) were used in the production of this report:

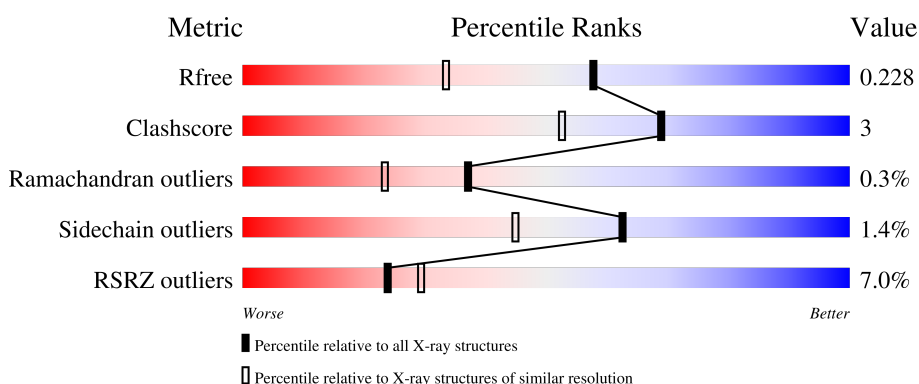|		
MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	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 1.74 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	Percentile Ranks	Value
Rfree		0.228
Clashscore		3
Ramachandran outliers		0.3%
Sidechain outliers		1.4%
RSRZ outliers		7.0%

Worse ─────────────── *Better*

▌ Percentile relative to all X-ray structures
▯ Percentile relative to X-ray structures of similar resolution

Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R$_{free}$	164625	1043 (1.74-1.74)
Clashscore	180529	1119 (1.74-1.74)
Ramachandran outliers	177936	1112 (1.74-1.74)
Sidechain outliers	177891	1112 (1.74-1.74)
RSRZ outliers	164620	1043 (1.74-1.74)

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 <=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	7% / 86% / 8% / 5%
1	B	315	6% / 87% / 6% · 6%

WORLDWIDE wwPDB PROTEIN DATA BANK

2 Entry composition ⓘ

There are 4 unique types of molecules in this entry. The entry contains 5058 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	299	Total	C	N	O	S	0	5	0
			2346	1492	387	447	20			
1	B	297	Total	C	N	O	S	0	4	1
			2343	1491	396	439	17			

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1076	GLY	-	expression tag	UNP Q9Y4B6
A	1077	ALA	-	expression tag	UNP Q9Y4B6
A	1078	SER	-	expression tag	UNP Q9Y4B6
A	1079	ALA	-	expression tag	UNP Q9Y4B6
B	1076	GLY	-	expression tag	UNP Q9Y4B6
B	1077	ALA	-	expression tag	UNP Q9Y4B6
B	1078	SER	-	expression tag	UNP Q9Y4B6
B	1079	ALA	-	expression tag	UNP Q9Y4B6

- Molecule 2 is (4P)-4-(4-chloro-2-fluorophenyl)-N-[(1S)-1-(3-chloro-4-fluorophenyl)-2-cyano ethyl]-5-[(1E)-3-oxo-3-(piperidin-1-yl)prop-1-en-1-yl]-1H-pyrrole-3-carboxamide (CCD ID: A1CVQ) (formula: $C_{28}H_{24}Cl_2F_2N_4O_2$) (labeled as "Ligand of Interest" by depositor).

A1CVQ
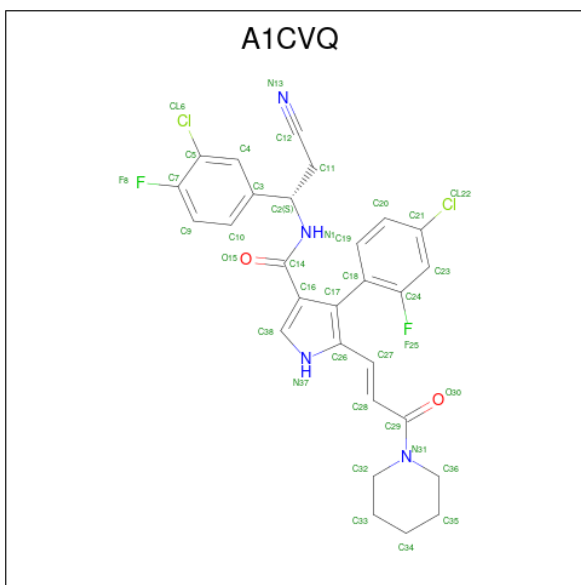
Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
2	A	1	Total	C	Cl	F	N	O	0	0
			38	28	2	2	4	2		
2	B	1	Total	C	Cl	F	N	O	0	0
			38	28	2	2	4	2		

- Molecule 3 is 1,2-ETHANEDIOL (CCD ID: EDO) (formula: $C_2H_6O_2$).

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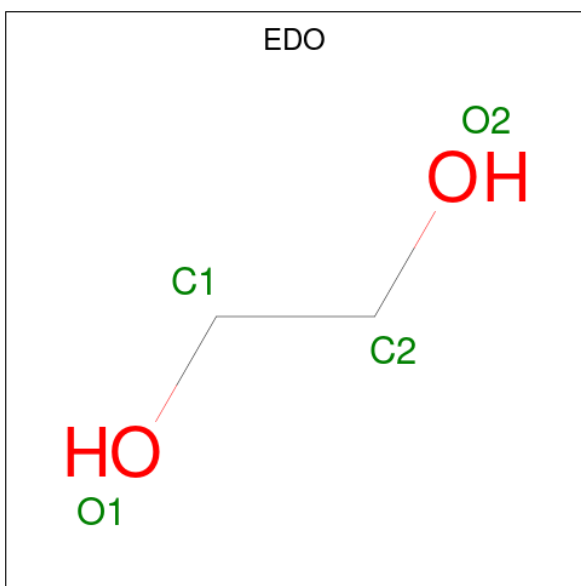
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	C	O	0	0
			4	2	2		
3	B	1	Total	C	O	0	0
			4	2	2		

• Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	138	Total 141	O 141	0	3
4	B	140	Total 144	O 144	0	4

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

Chain A:

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

Chain B:
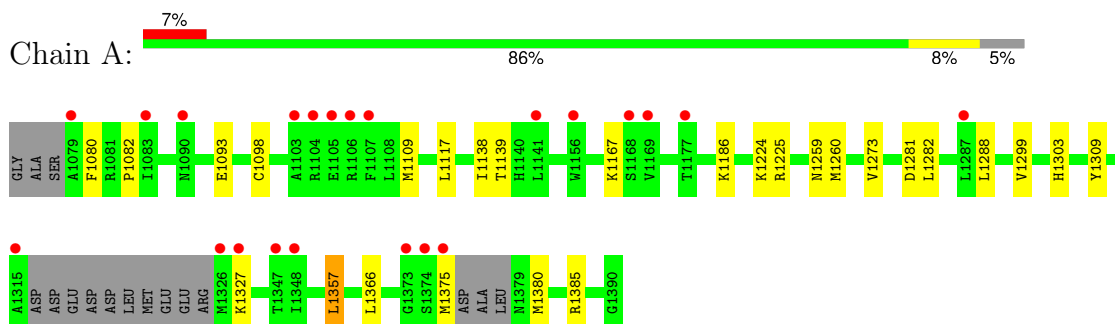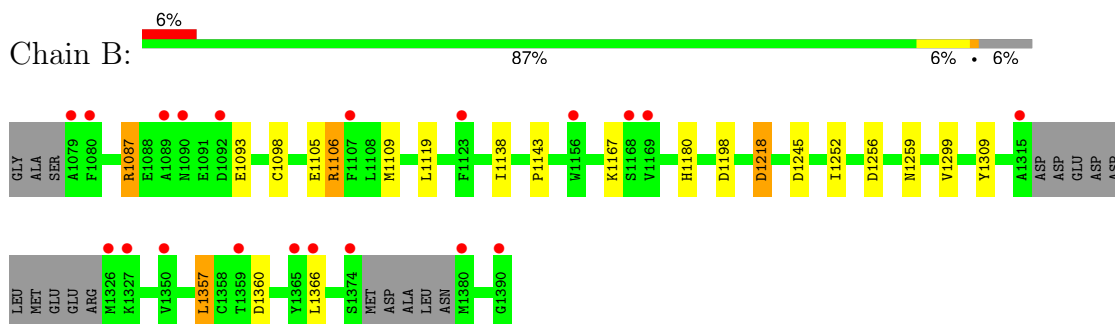
4 Data and refinement statistics ⓘ

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α, β, γ	48.86Å 87.71Å 73.83Å 90.00° 98.43° 90.00°	Depositor
Resolution (Å)	48.38 – 1.74 48.38 – 1.74	Depositor EDS
% Data completeness (in resolution range)	99.6 (48.38-1.74) 99.8 (48.38-1.74)	Depositor EDS
R_{merge}	0.05	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	2.64 (at 1.74Å)	Xtriage
Refinement program	REFMAC 5.8.0430	Depositor
R, R_{free}	0.186 , 0.224 0.193 , 0.228	Depositor DCC
R_{free} test set	3163 reflections (3.86%)	wwPDB-VP
Wilson B-factor (Å^2)	26.9	Xtriage
Anisotropy	0.251	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.34 , 30.1	EDS
L-test for twinning[2]	$< |L| > = 0.50, < L^2 > = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.96	EDS
Total number of atoms	5058	wwPDB-VP
Average B, all atoms (Å^2)	31.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.17% of the height of the origin peak. No significant pseudotranslation is detected.*

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[1]Intensities estimated from amplitudes.
[2]Theoretical values of $< |L| >$, $< L^2 >$ 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: A1CVQ, EDO

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	0.60	0/2406	0.85	0/3269
1	B	0.60	0/2404	0.86	2/3265 (0.1%)
All	All	0.60	0/4810	0.86	2/6534 (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
1	B	0	2
All	All	0	3

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1198	ASP	CA-CB-CG	5.47	118.07	112.60
1	B	1218	ASP	CA-CB-CG	5.19	117.79	112.60

There are no chirality outliers.

All (3) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	1225	ARG	Sidechain
1	B	1087	ARG	Sidechain
1	B	1106	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	2346	0	2195	19	1
1	B	2343	0	2210	10	1
2	A	38	0	0	0	0
2	B	38	0	0	0	0
3	A	4	0	6	2	0
3	B	4	0	6	0	0
4	A	141	0	0	5	0
4	B	144	0	0	2	0
All	All	5058	0	4417	31	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 3.

All (31) 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:1375:MET:HE1	1:A:1380:MET:SD	2.27	0.75
1:B:1357:LEU:HD13	1:B:1366:LEU:HD11	1.69	0.73
1:A:1186:LYS:HE2	4:A:1632:HOH:O	1.98	0.62
1:A:1357:LEU:HD13	1:A:1366:LEU:HD11	1.81	0.62
1:B:1098[A]:CYS:SG	1:B:1138:ILE:HG22	2.41	0.60
1:B:1218:ASP:OD1	4:B:1502:HOH:O	2.17	0.59
1:B:1245:ASP:HB2	1:B:1252[A]:ILE:HD11	1.84	0.58
1:B:1357:LEU:HD12	1:B:1357:LEU:C	2.28	0.58
1:B:1109:MET:HG2	1:B:1119:LEU:CD2	2.35	0.55
1:A:1385:ARG:NH2	4:A:1502[A]:HOH:O	2.41	0.53
3:A:1402:EDO:H22	4:A:1549[A]:HOH:O	2.11	0.51
1:A:1327:LYS:HA	1:A:1375:MET:HG3	1.93	0.50
1:A:1273:VAL:CG2	1:A:1282:LEU:HD13	2.40	0.50
1:B:1299:VAL:HA	1:B:1309:TYR:O	2.12	0.49
1:A:1375:MET:CE	1:A:1380:MET:SD	3.00	0.47
1:A:1098[B]:CYS:SG	1:A:1139:THR:C	2.98	0.47
1:A:1357:LEU:C	1:A:1357:LEU:HD12	2.41	0.46
1:A:1080:PHE:O	1:A:1082:PRO:HD3	2.16	0.45
3:A:1402:EDO:C2	4:A:1549[A]:HOH:O	2.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1105:GLU:OE1	1:B:1360:ASP:HB2	2.18	0.44
1:A:1273:VAL:HG23	1:A:1282:LEU:HD13	2.00	0.43
1:A:1299:VAL:HA	1:A:1309:TYR:O	2.18	0.43
1:A:1303:HIS:CE1	4:A:1572:HOH:O	2.71	0.43
1:B:1180[A]:HIS:CE1	4:B:1571:HOH:O	2.71	0.43
1:A:1093:GLU:HB3	1:A:1380:MET:O	2.19	0.43
1:B:1109:MET:HE1	1:B:1143:PRO:HB3	2.01	0.42
1:A:1109:MET:HE2	1:A:1117:LEU:HD11	2.02	0.42
1:A:1224:LYS:HE2	1:A:1260[A]:MET:HE3	2.01	0.41
1:A:1098[A]:CYS:SG	1:A:1138:ILE:HG22	2.61	0.41
1:A:1281:ASP:HB2	1:A:1288:LEU:HD11	2.03	0.41
1:A:1357:LEU:HD13	1:A:1366:LEU:CD1	2.48	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)
1:A:1385:ARG:NH2	1:B:1256:ASP:OD2[1_455]	2.19	0.01

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	298/315 (95%)	292 (98%)	5 (2%)	1 (0%)	37	23
1	B	295/315 (94%)	286 (97%)	8 (3%)	1 (0%)	37	23
All	All	593/630 (94%)	578 (98%)	13 (2%)	2 (0%)	37	23

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	1167	LYS

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Mol	Chain	Res	Type
1	A	1167	LYS

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	251/276 (91%)	249 (99%)	2 (1%)	79	70
1	B	251/276 (91%)	246 (98%)	5 (2%)	50	27
All	All	502/552 (91%)	495 (99%)	7 (1%)	62	45

All (7) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1259	ASN
1	A	1357	LEU
1	B	1087	ARG
1	B	1093	GLU
1	B	1106	ARG
1	B	1259	ASN
1	B	1357	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	1116	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 ⓘ

4 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	#$|Z| > 2$
3	EDO	A	1402	-	3,3,3	0.24	0	2,2,2	0.22	0
2	A1CVQ	B	1401	-	40,41,41	0.86	4 (10%)	50,57,57	0.66	1 (2%)
3	EDO	B	1402	-	3,3,3	0.13	0	2,2,2	0.10	0
2	A1CVQ	A	1401	-	40,41,41	1.02	3 (7%)	50,57,57	0.66	1 (2%)

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
3	EDO	A	1402	-	-	1/1/1/1	-
2	A1CVQ	B	1401	-	-	0/23/36/36	0/4/4/4
3	EDO	B	1402	-	-	0/1/1/1	-
2	A1CVQ	A	1401	-	-	0/23/36/36	0/4/4/4

All (7) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	1401	A1CVQ	C11-C2	-4.89	1.47	1.54
2	A	1401	A1CVQ	C18-C17	-2.89	1.46	1.50
2	B	1401	A1CVQ	C11-C2	-2.84	1.50	1.54
2	B	1401	A1CVQ	C18-C17	-2.79	1.47	1.50
2	B	1401	A1CVQ	C26-C27	-2.38	1.43	1.46
2	A	1401	A1CVQ	C26-C27	-2.26	1.44	1.46
2	B	1401	A1CVQ	C16-C14	-2.15	1.45	1.50

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	B	1401	A1CVQ	C38-N37-C26	3.46	109.91	104.56
2	A	1401	A1CVQ	C38-N37-C26	3.38	109.79	104.56

There are no chirality outliers.
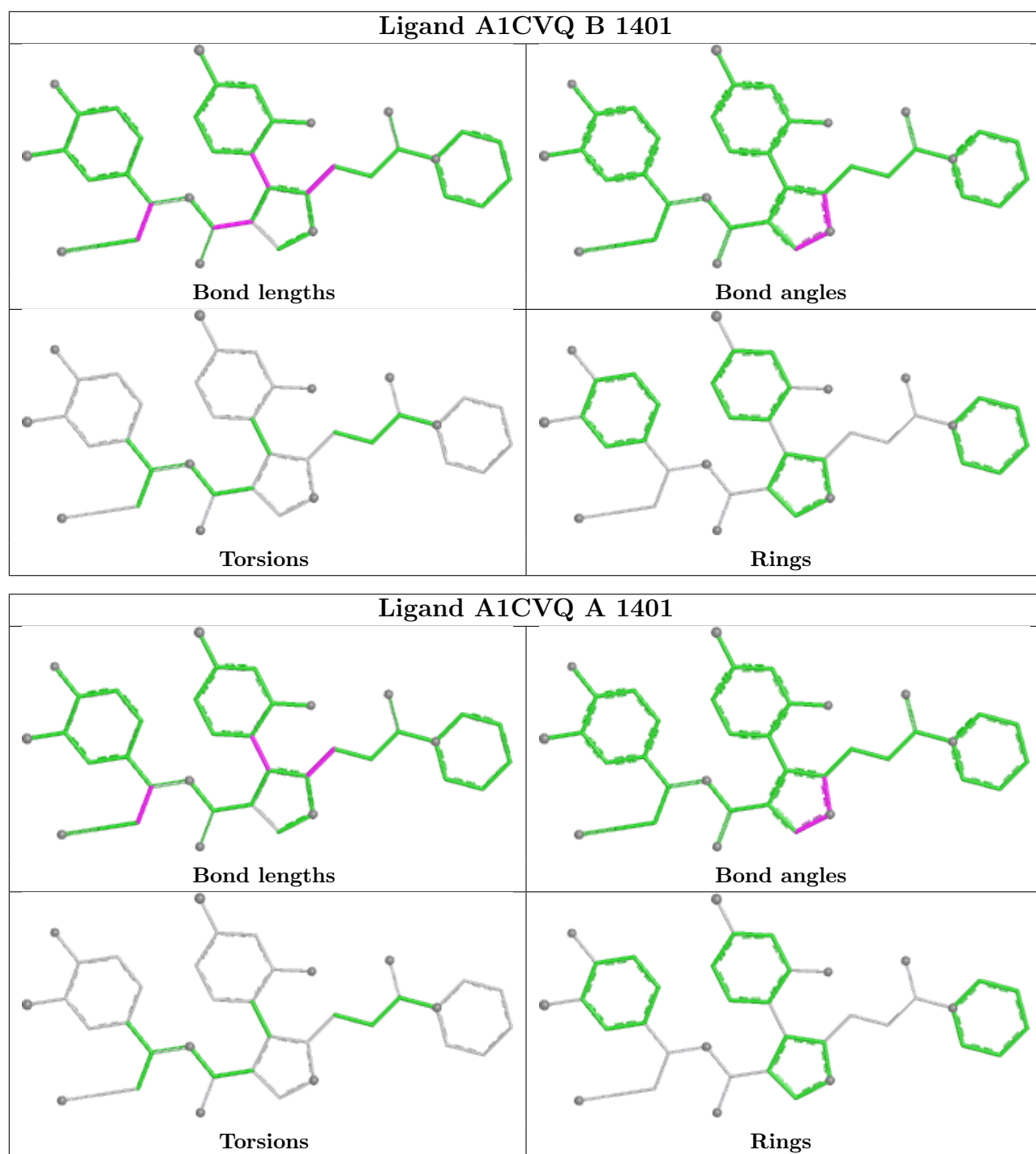
All (1) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	1402	EDO	O1-C1-C2-O2

There are no ring outliers.

1 monomer is involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	1402	EDO	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 then 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.

Ligand A1CVQ B 1401

Bond lengths

Bond angles

Torsions

Rings

Ligand A1CVQ A 1401

Bond lengths

Bond angles

Torsions

Rings

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	299/315 (94%)	0.45	22 (7%)	22	28	9, 29, 50, 80	5 (1%)
1	B	297/315 (94%)	0.43	20 (6%)	25	31	12, 29, 54, 75	4 (1%)
All	All	596/630 (94%)	0.44	42 (7%)	24	29	9, 29, 53, 80	9 (1%)

All (42) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	1156	TRP	5.4
1	B	1156	TRP	4.9
1	A	1079	ALA	4.6
1	B	1107	PHE	4.2
1	A	1374	SER	4.1
1	B	1374	SER	4.1
1	A	1169	VAL	4.1
1	B	1123	PHE	3.9
1	B	1315	ALA	3.9
1	B	1089	ALA	3.9
1	A	1105	GLU	3.4
1	A	1326	MET	3.4
1	B	1390	GLY	3.3
1	B	1092	ASP	3.2
1	B	1169	VAL	3.2
1	A	1103	ALA	3.0
1	A	1168	SER	3.0
1	B	1380	MET	2.9
1	B	1350	VAL	2.9
1	B	1080	PHE	2.9
1	A	1315	ALA	2.9
1	B	1079	ALA	2.9
1	A	1104	ARG	2.7
1	A	1375	MET	2.7

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Mol	Chain	Res	Type	RSRZ
1	A	1106	ARG	2.7
1	A	1090	ASN	2.6
1	A	1141	LEU	2.5
1	A	1083	ILE	2.5
1	A	1348	ILE	2.5
1	A	1107	PHE	2.4
1	B	1168	SER	2.4
1	B	1366	LEU	2.4
1	A	1177	THR	2.4
1	A	1373	GLY	2.3
1	B	1090	ASN	2.3
1	A	1347	THR	2.3
1	B	1365	TYR	2.2
1	B	1326	MET	2.2
1	B	1359	THR	2.2
1	A	1287	LEU	2.2
1	A	1327	LYS	2.1
1	B	1327	LYS	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 ⓘ

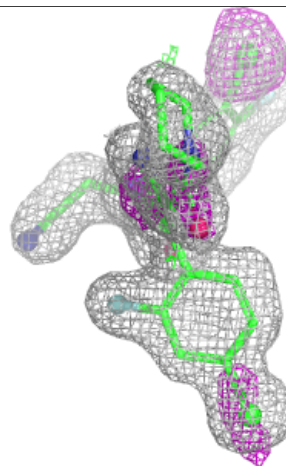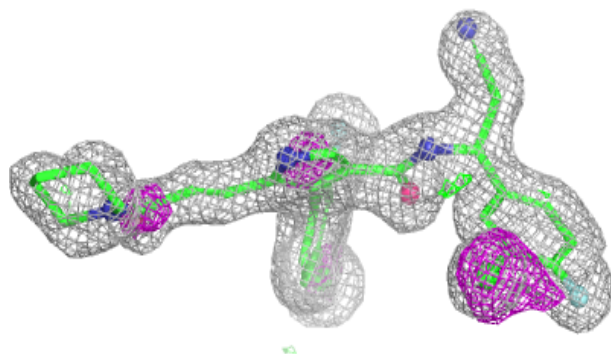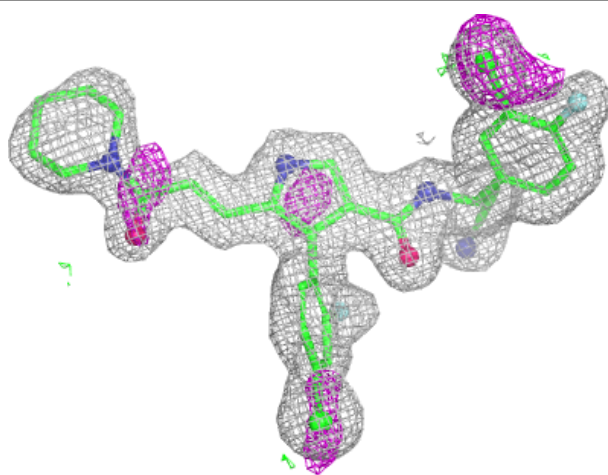There are no oligosaccharides in this entry.

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.
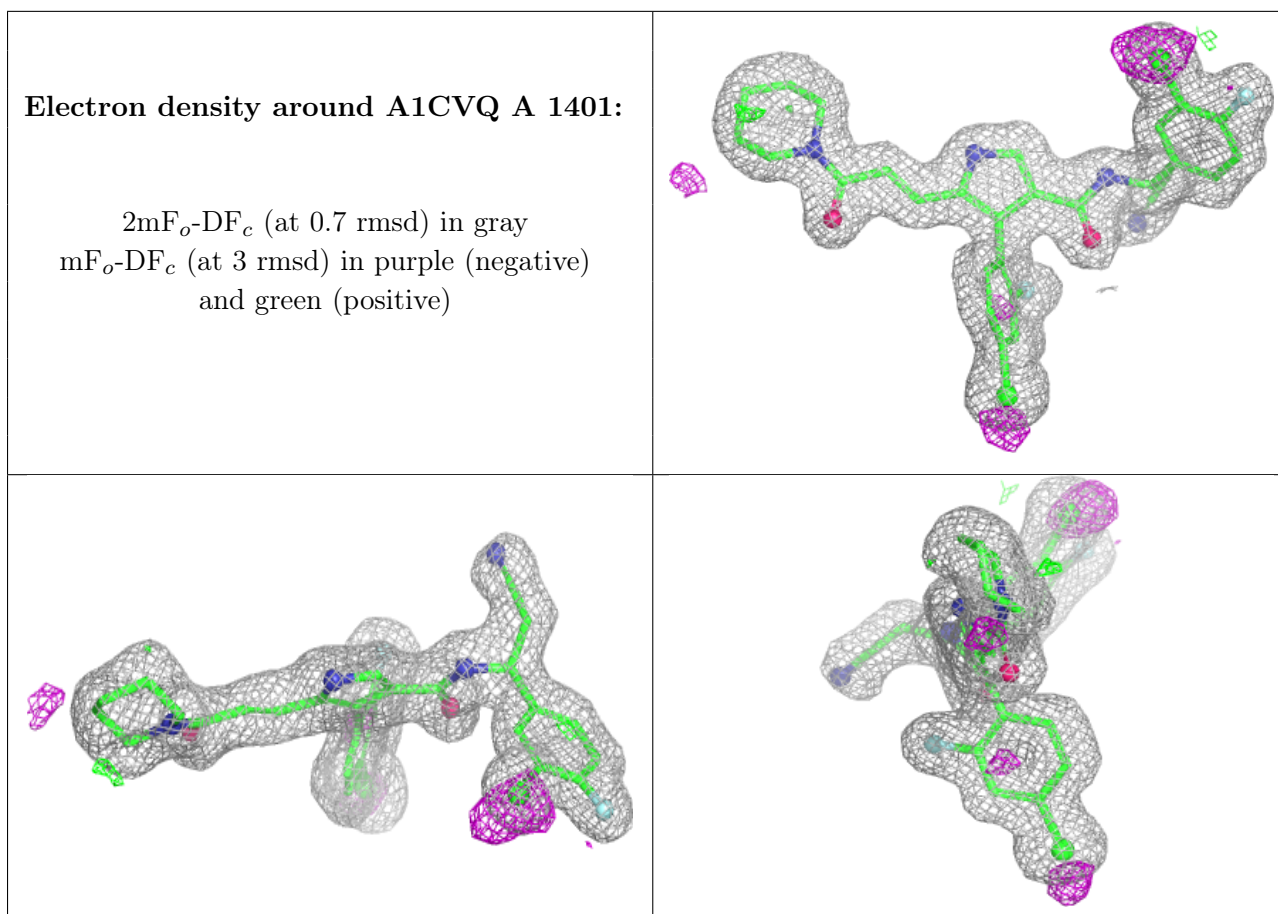
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
3	EDO	B	1402	4/4	0.79	0.15	47,49,52,53	0
3	EDO	A	1402	4/4	0.85	0.15	36,44,45,45	0
2	A1CVQ	B	1401	38/38	0.93	0.10	24,29,43,46	0
2	A1CVQ	A	1401	38/38	0.95	0.08	21,25,32,40	0

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 A1CVQ 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 A1CVQ 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 ⓘ

There are no such residues in this entry.