



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 03:29 PM UTC

PDB ID : 8OWG / pdb_00008owg
Title : Crystal structure of D1228V c-MET bound by compound 2
Authors : Collie, G.W.
Deposited on : 2023-04-27
Resolution : 2.63 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

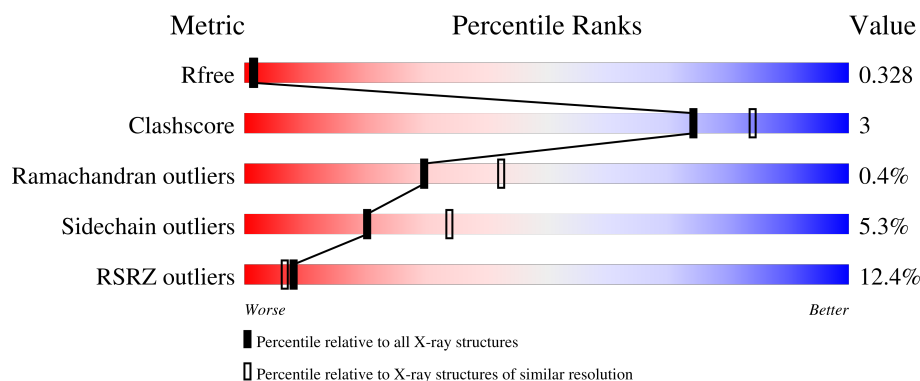
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.63 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	2053 (2.66-2.62)
Clashscore	190562	2097 (2.66-2.62)
Ramachandran outliers	187476	2066 (2.66-2.62)
Sidechain outliers	187428	2066 (2.66-2.62)
RSRZ outliers	180081	2052 (2.66-2.62)

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	309	8% 67% 11% • 21%
1	B	309	8% 69% 10% • 20%
1	C	309	13% 69% 6% • 24%

2 Entry composition [i](#)

There are 3 unique types of molecules in this entry. The entry contains 5818 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.

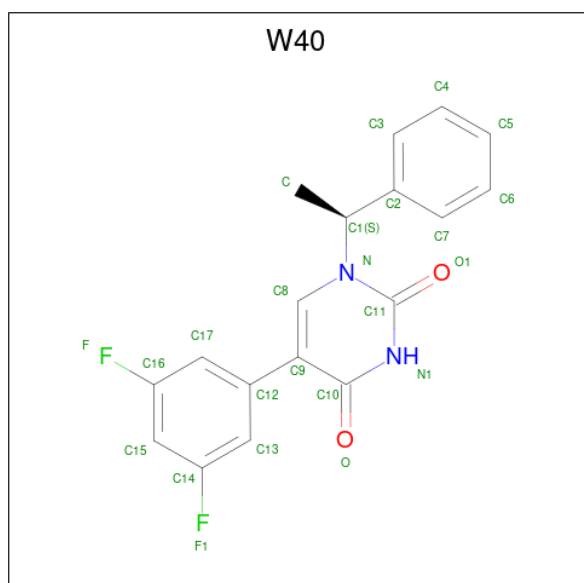
- Molecule 1 is a protein called Hepatocyte growth factor receptor.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	244	Total	C	N	O	S	0	0	0
			1898	1235	319	330	14			
1	B	246	Total	C	N	O	S	0	0	0
			1906	1239	321	332	14			
1	C	235	Total	C	N	O	S	0	0	0
			1829	1193	305	317	14			

There are 3 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1228	VAL	ASP	engineered mutation	UNP P08581
B	1228	VAL	ASP	engineered mutation	UNP P08581
C	1228	VAL	ASP	engineered mutation	UNP P08581

- Molecule 2 is 5-[3,5-bis(fluoranyl)phenyl]-1-[(1S)-1-phenylethyl]pyrimidine-2,4-dione (CCD ID: W40) (formula: C₁₈H₁₄F₂N₂O₂) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
2	A	1	Total	C	F	N	O	0	0
			24	18	2	2	2		
2	B	1	Total	C	F	N	O	0	0
			24	18	2	2	2		
2	C	1	Total	C	F	N	O	0	0
			24	18	2	2	2		

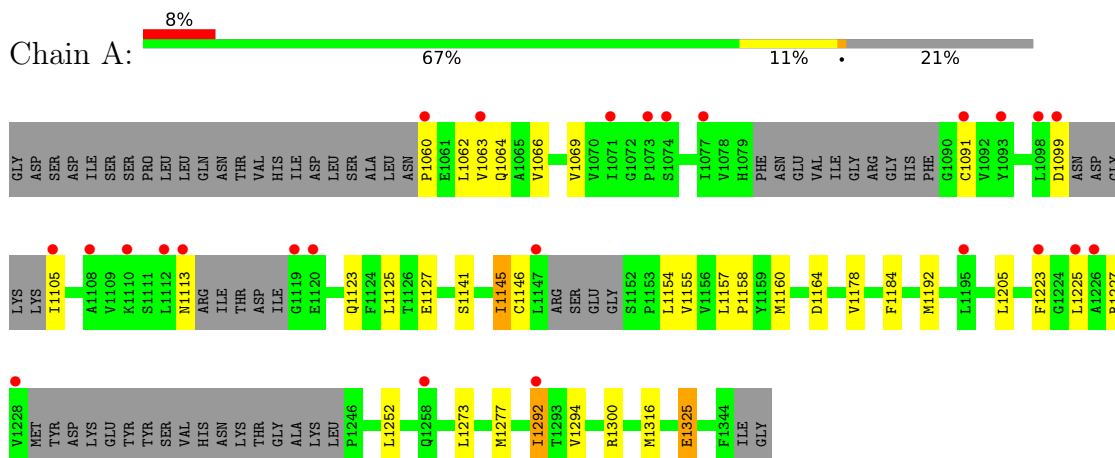
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	52	Total	O	0	0
			52	52		
3	B	35	Total	O	0	0
			35	35		
3	C	26	Total	O	0	0
			26	26		

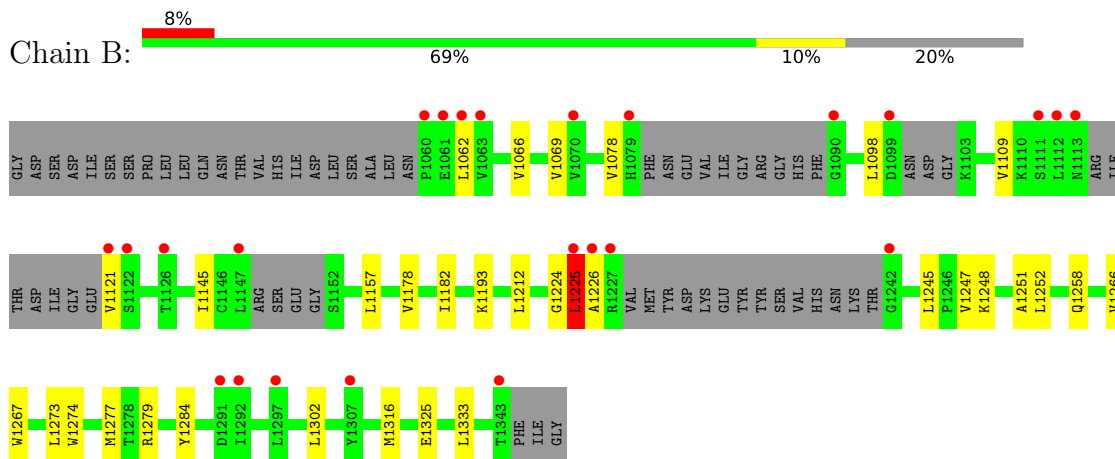
3 Residue-property plots

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.

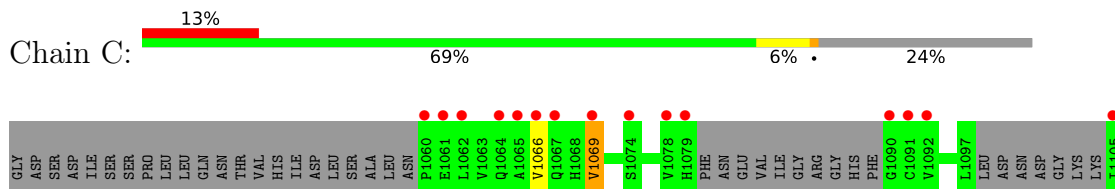
• Molecule 1: Hepatocyte growth factor receptor

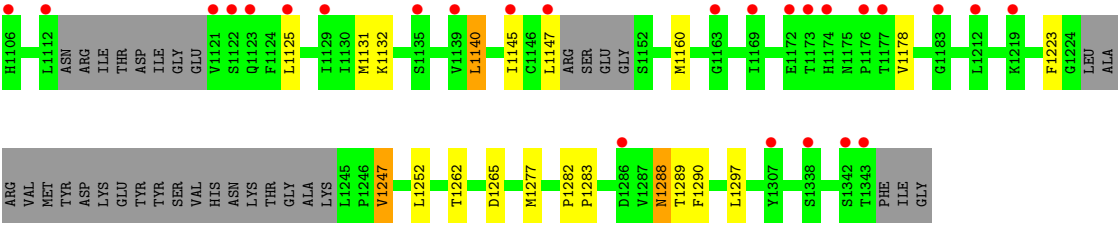


• Molecule 1: Hepatocyte growth factor receptor



• Molecule 1: Hepatocyte growth factor receptor





4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants a, b, c, α , β , γ	254.81 Å 46.20 Å 81.06 Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	81.06 – 2.63 81.06 – 2.63	Depositor EDS
% Data completeness (in resolution range)	99.5 (81.06-2.63) 99.4 (81.06-2.63)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.52 (at 2.62 Å)	Xtriage
Refinement program	BUSTER 2.11.8 (8-JUN-2022)	Depositor
R, R_{free}	0.281 , 0.329 0.273 , 0.328	Depositor DCC
R_{free} test set	1443 reflections (4.92%)	wwPDB-VP
Wilson B-factor (Å ²)	39.2	Xtriage
Anisotropy	0.317	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 50.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.88	EDS
Total number of atoms	5818	wwPDB-VP
Average B, all atoms (Å ²)	41.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.91% 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: W40

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	0.71	0/1944	1.09	7/2639 (0.3%)
1	B	0.68	0/1951	1.09	2/2647 (0.1%)
1	C	0.66	0/1874	1.06	1/2545 (0.0%)
All	All	0.68	0/5769	1.08	10/7831 (0.1%)

There are no bond length outliers.

All (10) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	1225	LEU	CA-C-N	7.41	135.70	121.54
1	B	1225	LEU	C-N-CA	7.41	135.70	121.54
1	A	1164	ASP	CA-C-N	5.61	127.80	120.28
1	A	1164	ASP	C-N-CA	5.61	127.80	120.28
1	C	1223	PHE	CA-CB-CG	-5.47	108.33	113.80
1	A	1160	MET	CA-C-N	5.35	127.77	120.54
1	A	1160	MET	C-N-CA	5.35	127.77	120.54
1	A	1184	PHE	CA-CB-CG	5.33	119.13	113.80
1	A	1062	LEU	CA-C-N	5.19	127.58	120.46
1	A	1062	LEU	C-N-CA	5.19	127.58	120.46

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	1898	0	1892	11	0
1	B	1906	0	1906	11	0
1	C	1829	0	1831	13	0
2	A	24	0	0	0	0
2	B	24	0	0	1	0
2	C	24	0	0	1	0
3	A	52	0	0	0	0
3	B	35	0	0	1	0
3	C	26	0	0	0	0
All	All	5818	0	5629	35	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 3.

All (35) 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:1288:ASN:HD22	1:C:1290:PHE:H	1.26	0.82
1:C:1069:VAL:HB	1:C:1132:LYS:HD3	1.67	0.74
1:C:1069:VAL:HG22	1:C:1145:ILE:HG12	1.73	0.71
1:C:1178:VAL:HG13	1:C:1277:MET:HE1	1.81	0.61
1:C:1247:VAL:HG21	1:C:1289:THR:HG23	1.83	0.60
1:C:1288:ASN:ND2	1:C:1290:PHE:H	1.98	0.59
1:A:1066:VAL:HG11	1:A:1125:LEU:HB3	1.84	0.58
1:B:1145:ILE:HD11	2:B:1401:W40:F1	1.95	0.57
1:B:1178:VAL:HG13	1:B:1277:MET:HE1	1.87	0.57
1:A:1146:CYS:HB2	1:A:1154:LEU:HB2	1.86	0.56
1:C:1140:LEU:HD12	1:C:1160:MET:HE3	1.87	0.54
1:A:1273:LEU:HB3	1:A:1316:MET:HE2	1.91	0.53
1:A:1141:SER:O	1:A:1158:PRO:HD3	2.11	0.51
1:A:1325:GLU:H	1:A:1325:GLU:CD	2.17	0.51
1:B:1078:VAL:HG22	1:B:1109:VAL:HG21	1.94	0.50
1:B:1266:VAL:HG13	1:B:1333:LEU:HD11	1.93	0.50
1:A:1178:VAL:HG13	1:A:1277:MET:HE1	1.94	0.49
1:A:1123:GLN:O	1:A:1127:GLU:HG2	2.13	0.49
1:C:1288:ASN:HD22	1:C:1290:PHE:N	2.04	0.48
1:B:1178:VAL:O	1:B:1182:ILE:HG13	2.15	0.46
1:A:1145:ILE:HD11	1:A:1155:VAL:HG22	1.96	0.46
1:B:1224:GLY:O	1:B:1225:LEU:CB	2.65	0.45
1:B:1274:TRP:CG	1:B:1302:LEU:HD13	2.53	0.43
1:B:1248:LYS:HE2	1:B:1284:TYR:HB2	2.01	0.43
1:B:1279:ARG:HD2	3:B:1502:HOH:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1292:ILE:H	1:A:1292:ILE:HG13	1.73	0.42
1:B:1251:ALA:HA	1:B:1267:TRP:CD2	2.55	0.42
1:A:1192:MET:HE2	1:A:1205:LEU:HD22	2.03	0.41
1:C:1252:LEU:HD21	1:C:1297:LEU:HD23	2.02	0.41
1:A:1060:PRO:N	1:A:1063:VAL:HG23	2.36	0.41
1:C:1066:VAL:HG21	1:C:1125:LEU:HD22	2.03	0.40
1:C:1131:MET:SD	2:C:1401:W40:C8	3.09	0.40
1:B:1273:LEU:HB3	1:B:1316:MET:HE2	2.02	0.40
1:C:1282:PRO:HA	1:C:1283:PRO:HD3	2.00	0.40
1:C:1262:THR:O	1:C:1265:ASP:HB2	2.20	0.40

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	232/309 (75%)	220 (95%)	11 (5%)	1 (0%)	30	42
1	B	234/309 (76%)	228 (97%)	4 (2%)	2 (1%)	14	21
1	C	223/309 (72%)	218 (98%)	5 (2%)	0	100	100
All	All	689/927 (74%)	666 (97%)	20 (3%)	3 (0%)	30	42

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	1225	LEU
1	B	1226	ALA
1	A	1225	LEU

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	208/274 (76%)	193 (93%)	15 (7%)	13	21
1	B	208/274 (76%)	195 (94%)	13 (6%)	16	27
1	C	202/274 (74%)	197 (98%)	5 (2%)	42	63
All	All	618/822 (75%)	585 (95%)	33 (5%)	20	34

All (33) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1064	GLN
1	A	1069	VAL
1	A	1091	CYS
1	A	1099	ASP
1	A	1105	ILE
1	A	1113	ASN
1	A	1145	ILE
1	A	1157	LEU
1	A	1223	PHE
1	A	1227	ARG
1	A	1252	LEU
1	A	1292	ILE
1	A	1294	VAL
1	A	1300	ARG
1	A	1325	GLU
1	B	1062	LEU
1	B	1066	VAL
1	B	1069	VAL
1	B	1098	LEU
1	B	1121	VAL
1	B	1157	LEU
1	B	1193	LYS
1	B	1212	LEU
1	B	1245	LEU
1	B	1247	VAL
1	B	1252	LEU

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Mol	Chain	Res	Type
1	B	1258	GLN
1	B	1325	GLU
1	C	1069	VAL
1	C	1140	LEU
1	C	1147	LEU
1	C	1247	VAL
1	C	1288	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (6) such sidechains are listed below:

Mol	Chain	Res	Type
1	B	1138	ASN
1	B	1162	HIS
1	B	1175	ASN
1	C	1162	HIS
1	C	1258	GLN
1	C	1288	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](#)

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	W40	A	1401	-	26,26,26	0.18	0	33,37,37	0.35	0
2	W40	C	1401	-	26,26,26	0.21	0	33,37,37	0.33	0
2	W40	B	1401	-	26,26,26	0.23	0	33,37,37	0.34	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	W40	A	1401	-	-	2/12/12/12	0/3/3/3
2	W40	C	1401	-	-	2/12/12/12	0/3/3/3
2	W40	B	1401	-	-	2/12/12/12	0/3/3/3

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (6) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	1401	W40	N-C1-C2-C3
2	A	1401	W40	N-C1-C2-C7
2	C	1401	W40	N-C1-C2-C3
2	C	1401	W40	N-C1-C2-C7
2	B	1401	W40	N-C1-C2-C7
2	B	1401	W40	N-C1-C2-C3

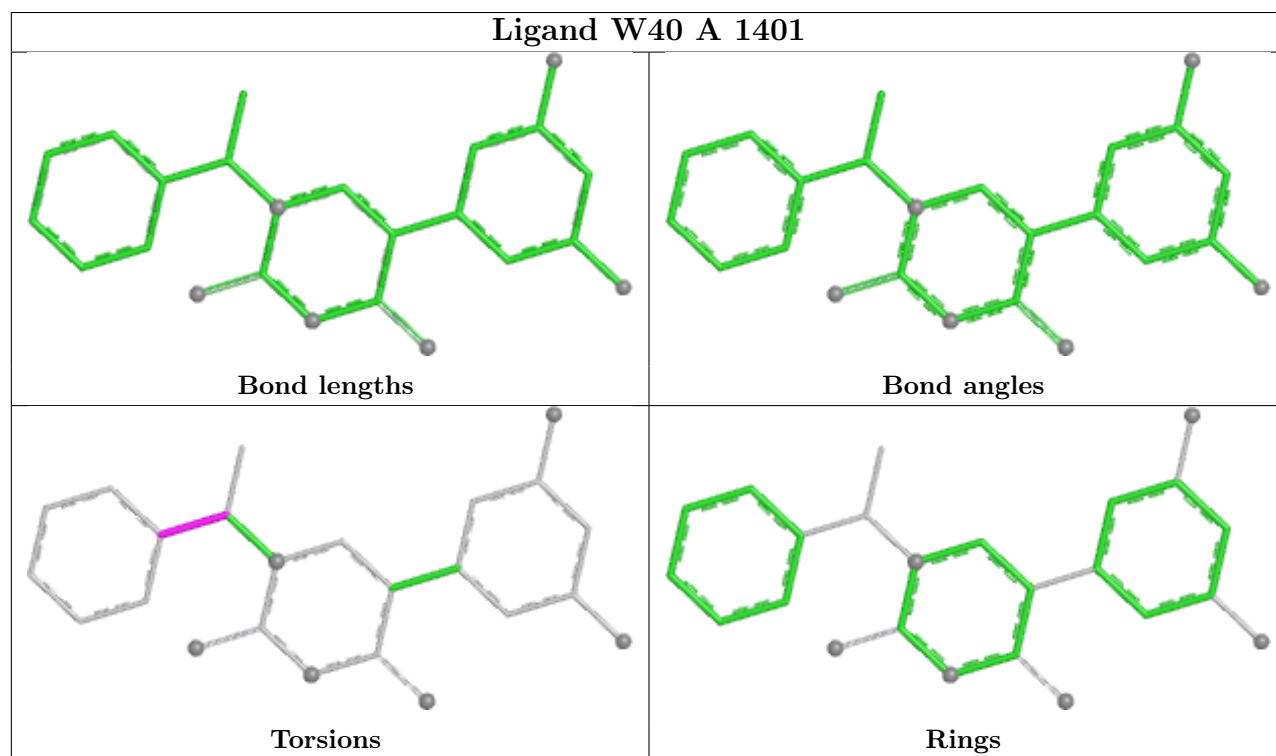
There are no ring outliers.

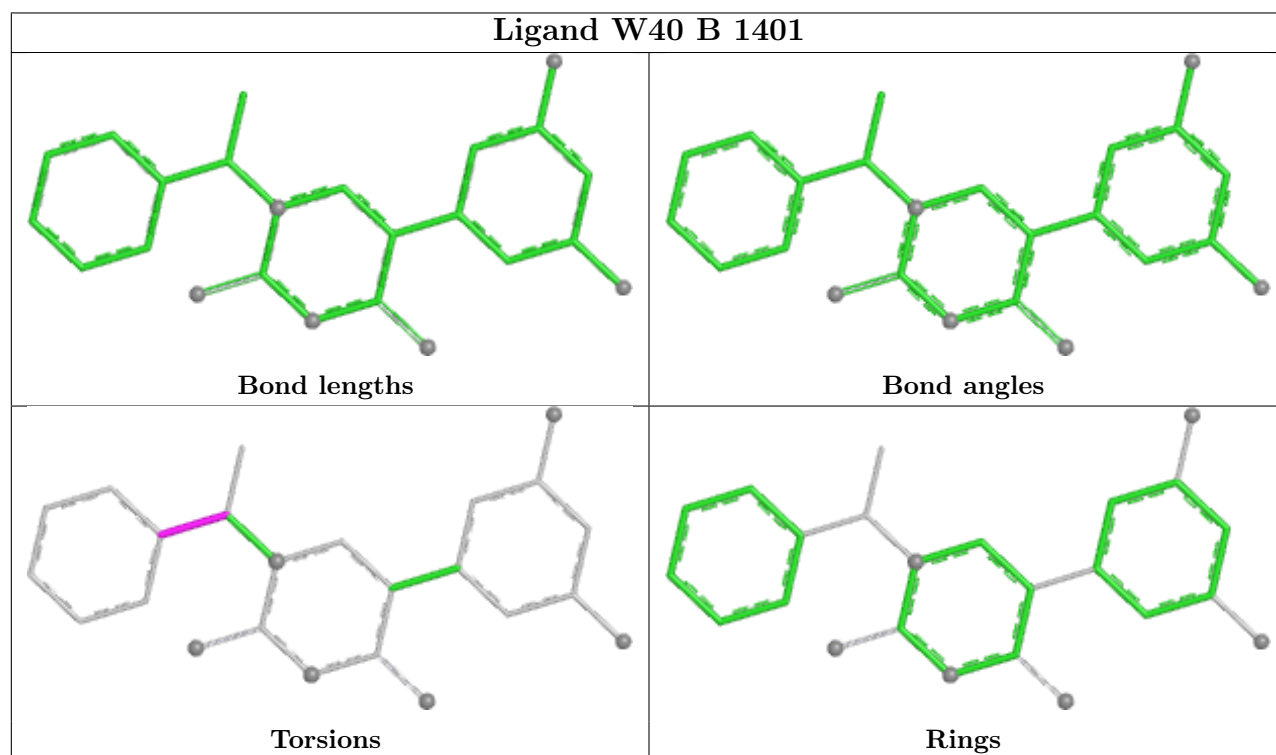
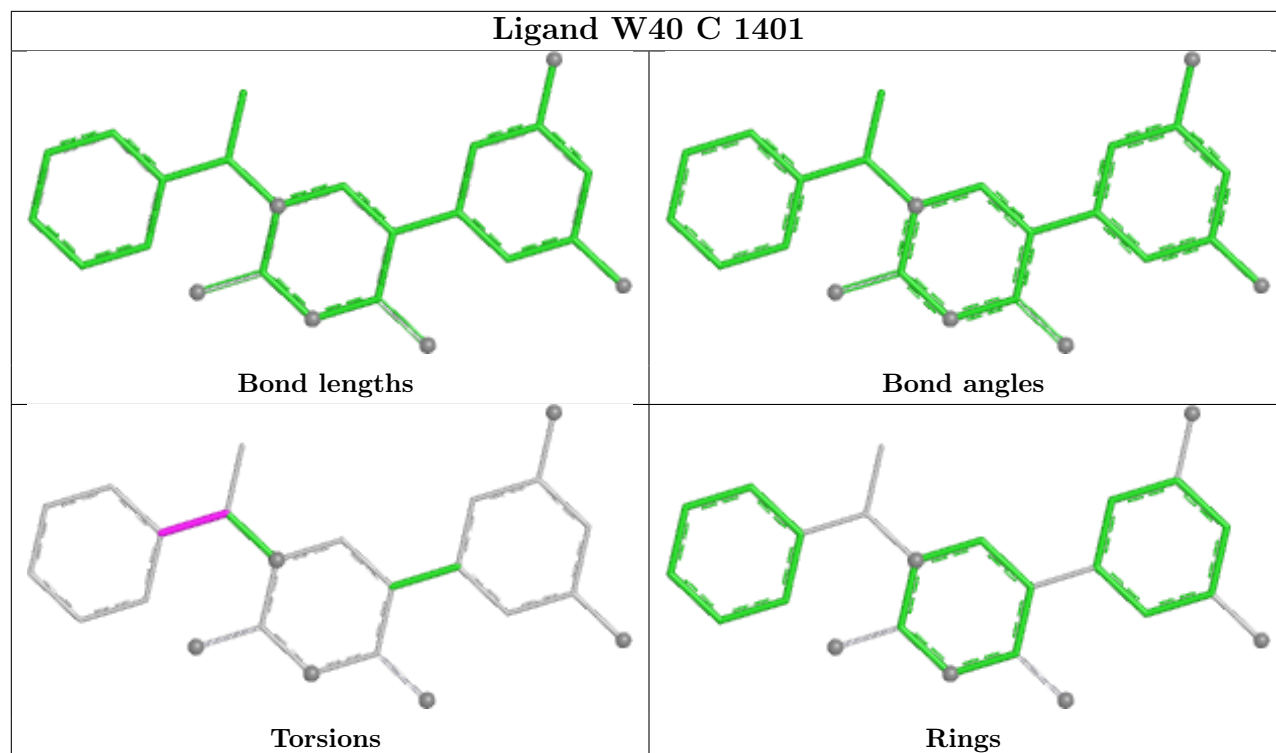
2 monomers are involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	C	1401	W40	1	0
2	B	1401	W40	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 [i](#)

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	244/309 (78%)	0.76	25 (10%)	12 10	24, 38, 62, 67	0
1	B	246/309 (79%)	0.78	24 (9%)	13 10	23, 39, 55, 64	0
1	C	235/309 (76%)	1.11	41 (17%)	4 3	23, 45, 63, 72	0
All	All	725/927 (78%)	0.88	90 (12%)	8 7	23, 40, 61, 72	0

All (90) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	1121	VAL	5.3
1	B	1060	PRO	5.0
1	C	1061	GLU	4.1
1	B	1242	GLY	4.0
1	A	1228	VAL	3.9
1	A	1119	GLY	3.7
1	C	1112	LEU	3.6
1	B	1113	ASN	3.5
1	C	1286	ASP	3.4
1	B	1079	HIS	3.4
1	A	1091	CYS	3.4
1	B	1147	LEU	3.4
1	A	1060	PRO	3.3
1	A	1113	ASN	3.3
1	A	1073	PRO	3.2
1	C	1343	THR	3.2
1	C	1122	SER	3.2
1	C	1163	GLY	3.1
1	C	1125	LEU	3.1
1	C	1062	LEU	3.0
1	C	1135	SER	3.0
1	A	1223	PHE	3.0
1	C	1145	ILE	3.0

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Mol	Chain	Res	Type	RSRZ
1	C	1307	TYR	2.9
1	C	1060	PRO	2.9
1	C	1219	LYS	2.9
1	A	1147	LEU	2.9
1	B	1070	VAL	2.9
1	C	1065	ALA	2.9
1	C	1172	GLU	2.8
1	C	1169	ILE	2.7
1	B	1226	ALA	2.7
1	C	1342	SER	2.7
1	B	1297	LEU	2.7
1	B	1227	ARG	2.7
1	C	1066	VAL	2.7
1	C	1067	GLN	2.6
1	B	1225	LEU	2.6
1	C	1121	VAL	2.6
1	B	1099	ASP	2.6
1	B	1112	LEU	2.6
1	B	1061	GLU	2.6
1	A	1099	ASP	2.5
1	C	1147	LEU	2.5
1	A	1071	ILE	2.5
1	C	1079	HIS	2.5
1	B	1307	TYR	2.5
1	A	1105	ILE	2.4
1	B	1062	LEU	2.4
1	B	1291	ASP	2.4
1	C	1176	PRO	2.4
1	B	1122	SER	2.4
1	B	1063	VAL	2.4
1	B	1292	ILE	2.4
1	A	1074	SER	2.4
1	B	1111	SER	2.3
1	C	1092	VAL	2.3
1	B	1126	THR	2.3
1	A	1120	GLU	2.3
1	A	1098	LEU	2.3
1	A	1077	ILE	2.3
1	C	1173	THR	2.2
1	C	1177	THR	2.2
1	C	1338	SER	2.2
1	C	1174	HIS	2.2

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Mol	Chain	Res	Type	RSRZ
1	A	1258	GLN	2.2
1	C	1090	GLY	2.2
1	A	1112	LEU	2.2
1	A	1292	ILE	2.2
1	A	1226	ALA	2.2
1	A	1093	TYR	2.2
1	C	1064	GLN	2.2
1	C	1212	LEU	2.2
1	C	1069	VAL	2.2
1	C	1078	VAL	2.2
1	B	1343	THR	2.1
1	C	1074	SER	2.1
1	A	1110	LYS	2.1
1	C	1123	GLN	2.1
1	B	1090	GLY	2.1
1	C	1183	GLY	2.1
1	C	1139	VAL	2.1
1	A	1195	LEU	2.1
1	A	1225	LEU	2.1
1	C	1105	ILE	2.1
1	C	1106	HIS	2.0
1	A	1063	VAL	2.0
1	C	1091	CYS	2.0
1	A	1108	ALA	2.0
1	C	1129	ILE	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](#)

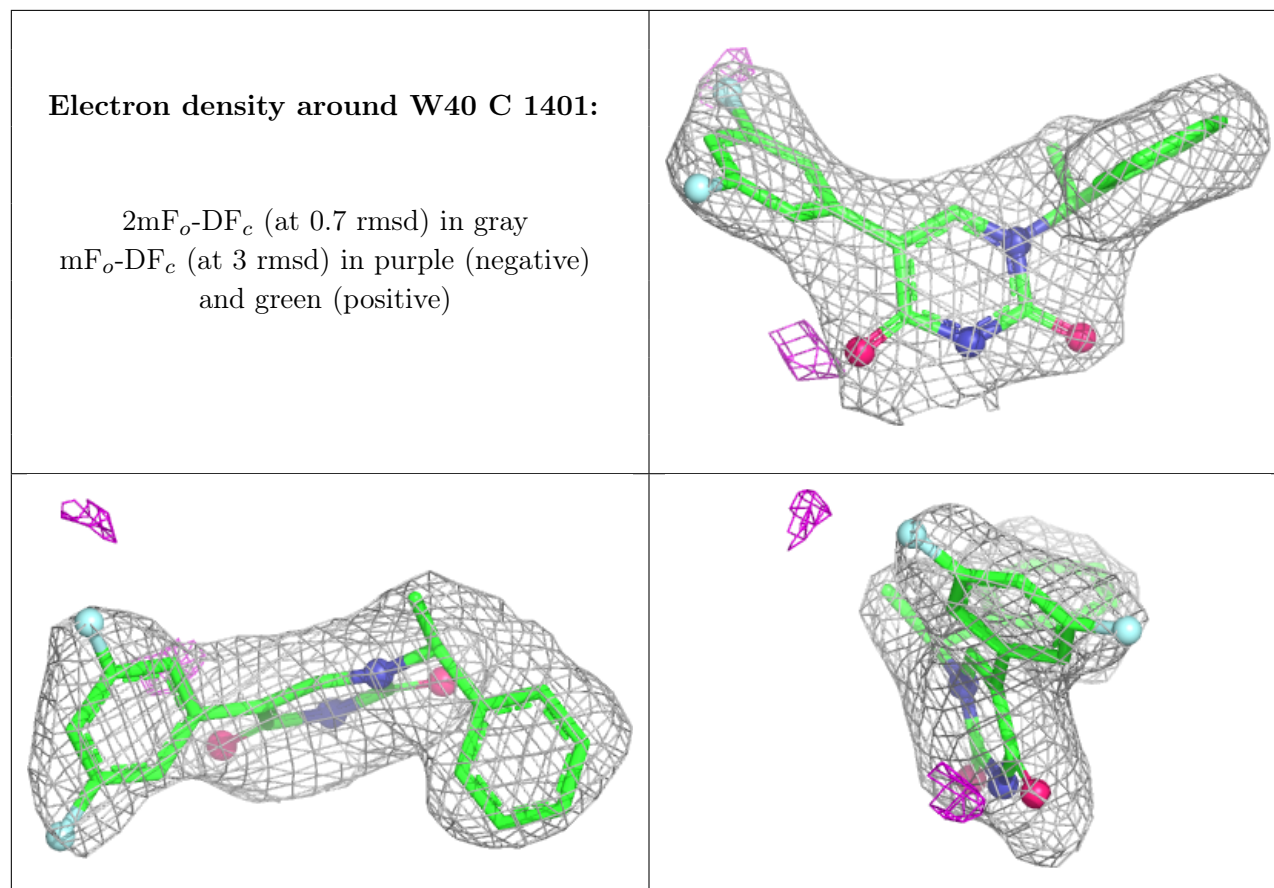
There are no oligosaccharides in this entry.

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.

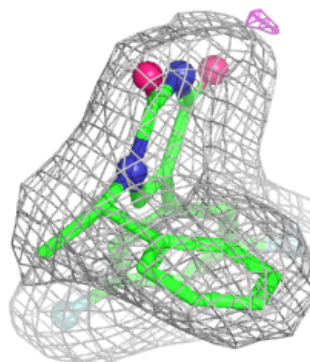
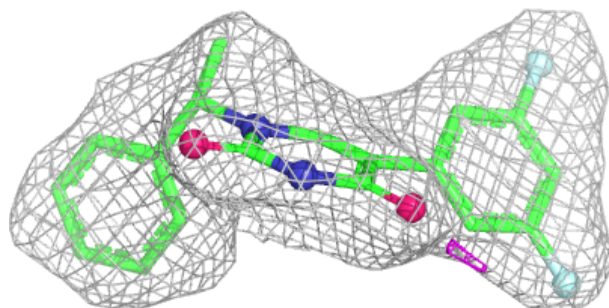
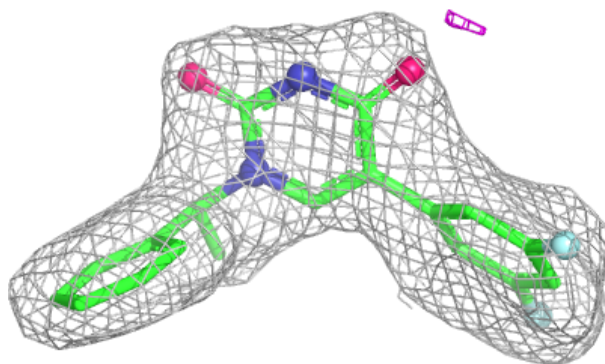
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	W40	C	1401	24/24	0.87	0.15	45,46,49,49	0
2	W40	B	1401	24/24	0.89	0.11	32,34,36,36	0
2	W40	A	1401	24/24	0.90	0.10	35,37,38,39	0

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.

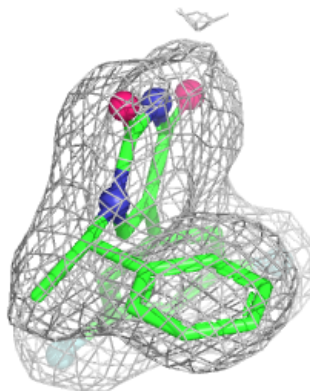
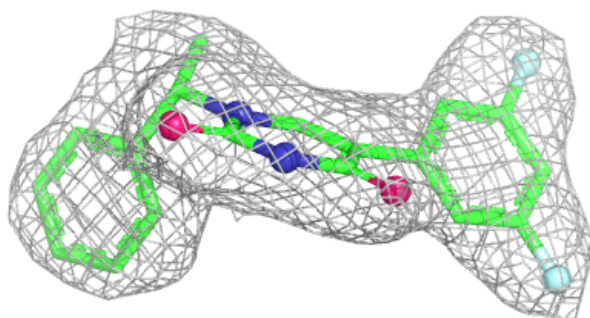
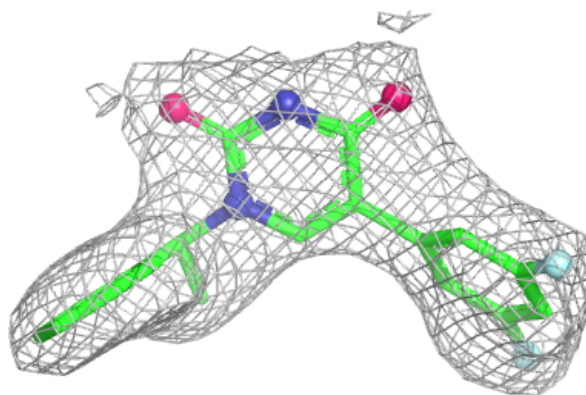


Electron density around W40 B 1401:

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

**Electron density around W40 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.