



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 9, 2026 – 05:56 AM UTC

PDB ID : 3O8P / pdb_00003o8p
Title : Conformational plasticity of p38 MAP kinase DFG motif mutants in response to inhibitor binding
Authors : Namboodiri, H.V.; Karpusas, M.; Bukhtiyarova, M.; Springman, E.B.
Deposited on : 2010-08-03
Resolution : 2.10 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

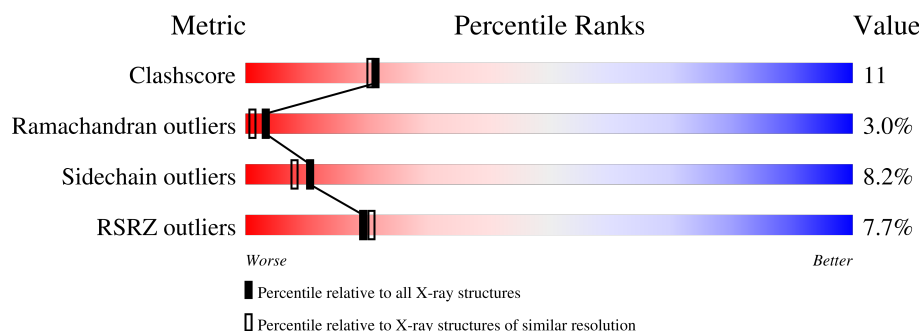
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.10 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))
Clashscore	190562	7164 (2.10-2.10)
Ramachandran outliers	187476	7099 (2.10-2.10)
Sidechain outliers	187428	7100 (2.10-2.10)
RSRZ outliers	180081	6662 (2.10-2.10)

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	360	

2 Entry composition [i](#)

There are 5 unique types of molecules in this entry. The entry contains 3030 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.

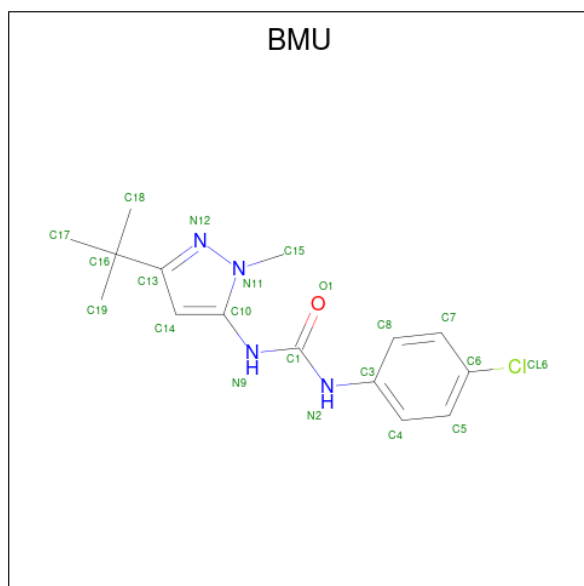
- Molecule 1 is a protein called Mitogen-activated protein kinase 14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	336	2698	1732	461	494	11	0	0	0

There is a discrepancy between the modelled and reference sequences:

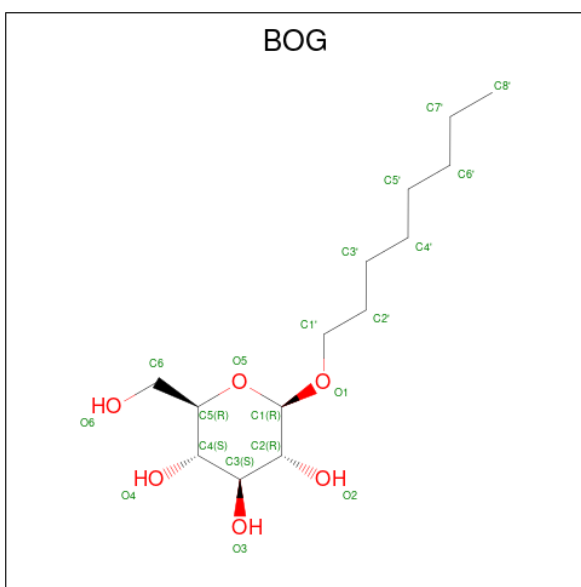
Chain	Residue	Modelled	Actual	Comment	Reference
A	168	GLY	ASP	engineered mutation	UNP Q16539

- Molecule 2 is 1-(5-TERT-BUTYL-2-METHYL-2H-PYRAZOL-3-YL)-3-(4-CHLORO-PHENYL)-UREA (CCD ID: BMU) (formula: $C_{15}H_{19}ClN_4O$).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	Cl	N	O		
2	A	1	21	15	1	4	1	0	0

- Molecule 3 is octyl beta-D-glucopyranoside (CCD ID: BOG) (formula: $C_{14}H_{28}O_6$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	C	O	0	0
			20	14	6		

- Molecule 4 is 1,2-ETHANEDIOL (CCD ID: EDO) (formula: $C_2H_6O_2$).



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

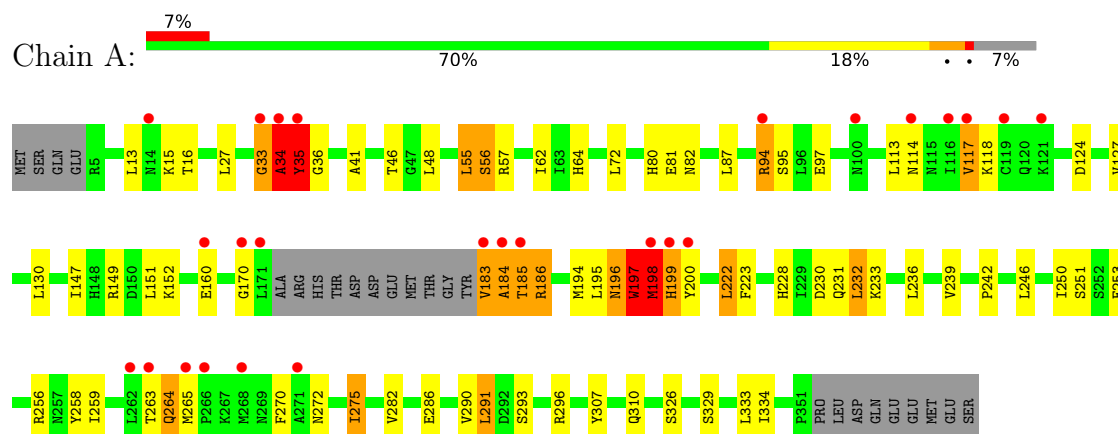
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	287	Total 287	O 287	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: Mitogen-activated protein kinase 14



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	65.93Å 73.59Å 76.83Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	34.05 – 2.10 34.05 – 2.10	Depositor EDS
% Data completeness (in resolution range)	99.6 (34.05-2.10) 95.6 (34.05-2.10)	Depositor EDS
R_{merge}	0.09	Depositor
R_{sym}	0.06	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.93 (at 2.10Å)	Xtriage
Refinement program	REFMAC 5.2.0019	Depositor
R, R_{free}	0.213 , 0.276 0.215 , (Not available)	Depositor DCC
R_{free} test set	No test flags present.	wwPDB-VP
Wilson B-factor (Å ²)	26.2	Xtriage
Anisotropy	0.407	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 37.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	0.023 for -h,l,k	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	3030	wwPDB-VP
Average B, all atoms (Å ²)	28.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.73% 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: BOG, BMU, 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	0.70	0/2759	0.97	12/3745 (0.3%)

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

There are no bond length outliers.

All (12) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed($^{\circ}$)	Ideal($^{\circ}$)
1	A	34	ALA	N-CA-C	8.89	121.94	111.71
1	A	34	ALA	CA-C-N	8.50	137.00	121.70
1	A	34	ALA	C-N-CA	8.50	137.00	121.70
1	A	55	LEU	N-CA-C	8.15	120.17	111.28
1	A	94	ARG	N-CA-C	-6.79	99.53	110.32
1	A	198	MET	CA-C-N	6.58	133.54	121.70
1	A	198	MET	C-N-CA	6.58	133.54	121.70
1	A	184	ALA	CA-C-N	6.16	132.79	121.70
1	A	184	ALA	C-N-CA	6.16	132.79	121.70
1	A	35	TYR	N-CA-CB	5.26	119.45	110.50
1	A	183	VAL	CA-C-N	5.14	130.95	121.70
1	A	183	VAL	C-N-CA	5.14	130.95	121.70

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	34	ALA	Peptide

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	2698	0	2698	60	0
2	A	21	0	19	0	0
3	A	20	0	28	3	0
4	A	4	0	6	0	0
5	A	287	0	0	5	0
All	All	3030	0	2751	60	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 11.

All (60) 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:233:LYS:HG3	1:A:258:TYR:OH	1.56	1.06
1:A:250:ILE:O	1:A:256:ARG:NH1	2.02	0.92
1:A:55:LEU:O	1:A:56:SER:HB3	1.70	0.92
1:A:290:VAL:O	1:A:296:ARG:HD2	1.81	0.79
1:A:272:ASN:O	1:A:275:ILE:HG12	1.82	0.78
1:A:184:ALA:C	5:A:490:HOH:O	2.26	0.77
1:A:33:GLY:HA3	1:A:36:GLY:O	1.85	0.77
1:A:35:TYR:HB2	5:A:373:HOH:O	1.84	0.77
1:A:127:VAL:HG23	1:A:307:TYR:OH	1.86	0.76
1:A:80:HIS:HD2	1:A:82:ASN:H	1.33	0.75
1:A:256:ARG:HG3	1:A:256:ARG:HH11	1.57	0.69
1:A:194:MET:HE2	1:A:228:HIS:CG	2.29	0.66
1:A:113:LEU:O	1:A:117:VAL:HG23	1.96	0.65
1:A:251:SER:C	1:A:256:ARG:HH12	2.05	0.65
1:A:80:HIS:CD2	1:A:82:ASN:H	2.15	0.64
1:A:239:VAL:HG21	1:A:291:LEU:HD13	1.80	0.64
1:A:198:MET:CB	1:A:199:HIS:CB	2.76	0.64
1:A:194:MET:HE2	1:A:228:HIS:HA	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:35:TYR:O	1:A:55:LEU:O	2.19	0.61
1:A:55:LEU:O	1:A:56:SER:CB	2.44	0.60
1:A:81:GLU:H	1:A:81:GLU:CD	2.10	0.60
1:A:256:ARG:NH1	1:A:256:ARG:HG3	2.18	0.58
1:A:196:ASN:O	1:A:198:MET:N	2.37	0.57
1:A:194:MET:CE	1:A:228:HIS:HA	2.35	0.57
1:A:291:LEU:HG	3:A:362:BOG:H4'1	1.88	0.56
1:A:27:LEU:HD23	1:A:41:ALA:HB2	1.88	0.55
1:A:222:LEU:HD13	1:A:223:PHE:CE1	2.43	0.54
1:A:57:ARG:O	1:A:64:HIS:HD2	1.92	0.52
1:A:259:ILE:CD1	3:A:362:BOG:H7'2	2.40	0.52
1:A:259:ILE:HD11	3:A:362:BOG:H7'2	1.92	0.51
1:A:124:ASP:HA	1:A:127:VAL:HG22	1.93	0.50
1:A:290:VAL:O	1:A:296:ARG:CD	2.59	0.48
1:A:236:LEU:HD11	1:A:259:ILE:HD12	1.96	0.48
1:A:326:SER:O	1:A:329:SER:HB2	2.14	0.47
1:A:197:TRP:O	1:A:198:MET:CB	2.62	0.47
1:A:230:ASP:HA	1:A:233:LYS:HE3	1.96	0.47
1:A:197:TRP:CH2	1:A:250:ILE:HD13	2.49	0.47
1:A:147:ILE:HG22	1:A:149:ARG:HG3	1.97	0.46
1:A:62:ILE:HG13	1:A:334:ILE:HG13	1.98	0.46
1:A:152:LYS:HD2	1:A:184:ALA:HB1	1.99	0.45
1:A:34:ALA:HB3	1:A:35:TYR:CD2	2.51	0.45
1:A:282:VAL:O	1:A:286:GLU:HG3	2.18	0.44
1:A:80:HIS:HE1	5:A:403:HOH:O	2.01	0.44
1:A:291:LEU:HD12	1:A:291:LEU:HA	1.90	0.44
1:A:198:MET:CA	1:A:199:HIS:CB	2.96	0.44
1:A:186:ARG:HB2	1:A:194:MET:HE3	2.00	0.43
1:A:46:THR:HB	1:A:48:LEU:HD12	2.01	0.42
1:A:114:ASN:HD21	1:A:118:LYS:NZ	2.17	0.42
1:A:185:THR:N	5:A:490:HOH:O	2.46	0.42
1:A:196:ASN:HD22	1:A:196:ASN:HA	1.57	0.42
1:A:270:PHE:CD1	1:A:286:GLU:HG2	2.55	0.42
1:A:256:ARG:HH11	1:A:256:ARG:CG	2.28	0.42
1:A:310:GLN:NE2	5:A:620:HOH:O	2.52	0.41
1:A:293:SER:HA	1:A:296:ARG:HD3	2.02	0.41
1:A:253:GLU:OE1	1:A:256:ARG:NH2	2.53	0.41
1:A:194:MET:SD	1:A:231:GLN:HG2	2.61	0.41
1:A:183:VAL:N	1:A:184:ALA:HA	2.35	0.41
1:A:242:PRO:HB3	1:A:246:LEU:HD23	2.02	0.41
1:A:228:HIS:O	1:A:232:LEU:HD22	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:246:LEU:HD12	1:A:246:LEU:HA	1.95	0.40

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	332/360 (92%)	315 (95%)	7 (2%)	10 (3%)	3 1

All (10) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	197	TRP
1	A	198	MET
1	A	199	HIS
1	A	35	TYR
1	A	95	SER
1	A	170	GLY
1	A	264	GLN
1	A	263	THR
1	A	56	SER
1	A	33	GLY

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	294/319 (92%)	270 (92%)	24 (8%)	10 8

All (24) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	13	LEU
1	A	15	LYS
1	A	16	THR
1	A	72	LEU
1	A	87	LEU
1	A	94	ARG
1	A	97	GLU
1	A	117	VAL
1	A	130	LEU
1	A	151	LEU
1	A	160	GLU
1	A	185	THR
1	A	186	ARG
1	A	195	LEU
1	A	196	ASN
1	A	197	TRP
1	A	200	TYR
1	A	222	LEU
1	A	232	LEU
1	A	264	GLN
1	A	265	MET
1	A	275	ILE
1	A	291	LEU
1	A	333	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (10) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	64	HIS
1	A	80	HIS
1	A	114	ASN
1	A	115	ASN
1	A	128	GLN
1	A	196	ASN
1	A	228	HIS
1	A	257	ASN
1	A	310	GLN

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Mol	Chain	Res	Type
1	A	312	HIS

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$
3	BOG	A	362	-	20,20,20	0.59	1 (5%)	25,25,25	1.11	1 (4%)
2	BMU	A	361	-	21,22,22	1.51	4 (19%)	29,32,32	1.97	6 (20%)
4	EDO	A	363	-	3,3,3	0.40	0	2,2,2	0.48	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
3	BOG	A	362	-	-	7/11/31/31	0/1/1/1
2	BMU	A	361	-	-	0/14/14/14	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	EDO	A	363	-	-	0/1/1/1	-

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	361	BMU	C10-N9	-3.40	1.34	1.39
2	A	361	BMU	C6-CL6	2.45	1.80	1.74
2	A	361	BMU	C3-N2	-2.36	1.36	1.41
3	A	362	BOG	O1-C1	2.07	1.43	1.40
2	A	361	BMU	N11-N12	2.05	1.40	1.36

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	361	BMU	C14-C10-N11	5.25	109.83	107.50
2	A	361	BMU	C15-N11-C10	4.70	135.60	128.98
3	A	362	BOG	O1-C1-C2	4.48	115.08	108.27
2	A	361	BMU	C16-C13-C14	-4.31	122.54	128.66
2	A	361	BMU	C10-C14-C13	-3.96	102.85	105.27
2	A	361	BMU	C15-N11-N12	-3.31	114.33	119.29
2	A	361	BMU	C16-C13-N12	2.18	123.30	120.42

There are no chirality outliers.

All (7) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	362	BOG	O5-C1-O1-C1'
3	A	362	BOG	C2-C1-O1-C1'
3	A	362	BOG	C4'-C5'-C6'-C7'
3	A	362	BOG	C3'-C4'-C5'-C6'
3	A	362	BOG	C2'-C3'-C4'-C5'
3	A	362	BOG	C5'-C6'-C7'-C8'
3	A	362	BOG	C2'-C1'-O1-C1

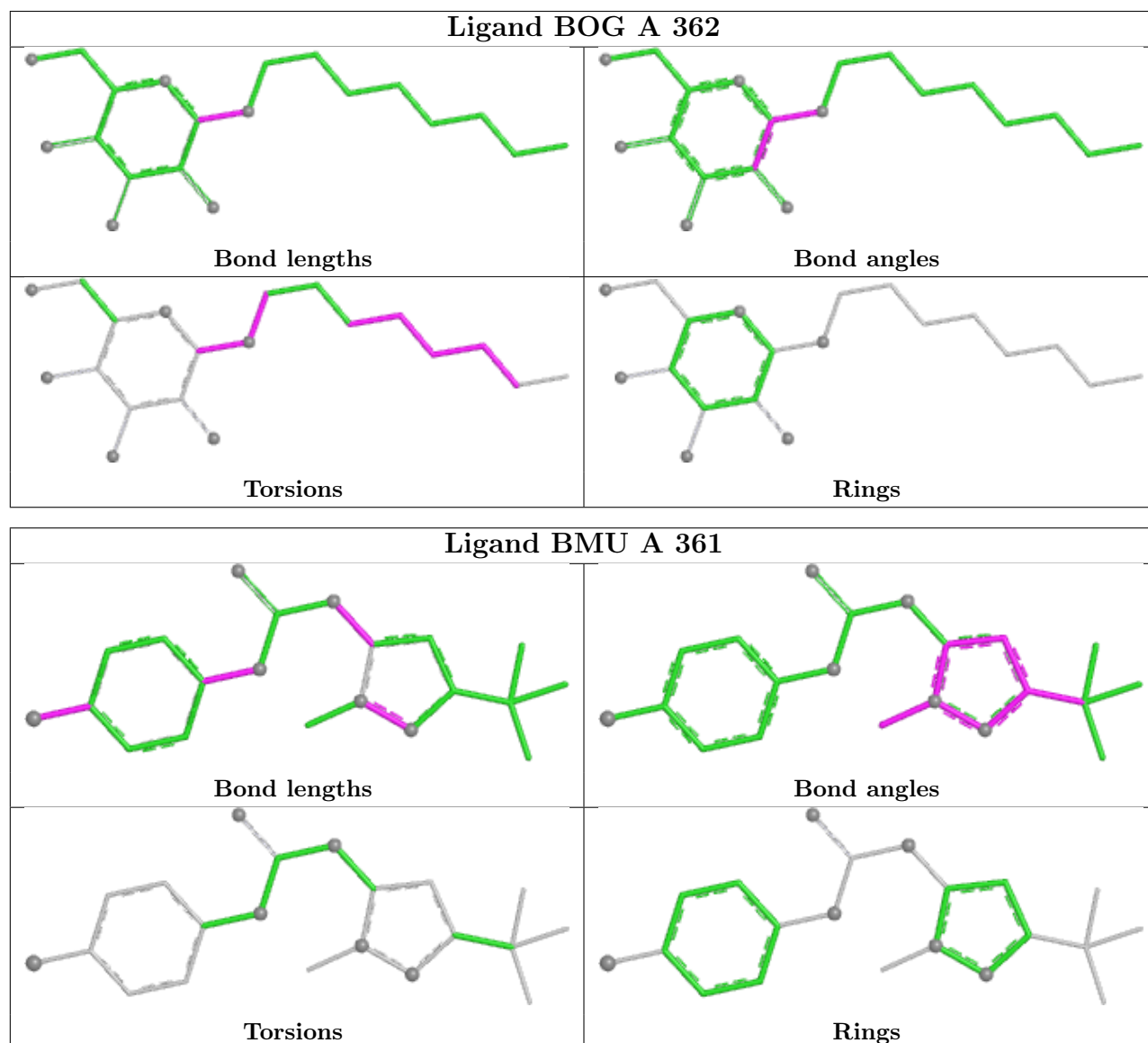
There are no ring outliers.

1 monomer is involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	362	BOG	3	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	336/360 (93%)	0.37	26 (7%) 19 21	15, 25, 43, 57	0

All (26) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	263	THR	5.3
1	A	119	CYS	4.4
1	A	33	GLY	4.2
1	A	34	ALA	4.1
1	A	170	GLY	3.7
1	A	184	ALA	3.7
1	A	266	PRO	3.6
1	A	117	VAL	3.6
1	A	265	MET	3.3
1	A	183	VAL	3.3
1	A	200	TYR	3.1
1	A	14	ASN	2.9
1	A	116	ILE	2.8
1	A	199	HIS	2.7
1	A	271	ALA	2.6
1	A	171	LEU	2.6
1	A	100	ASN	2.5
1	A	35	TYR	2.5
1	A	121	LYS	2.3
1	A	268	MET	2.3
1	A	94	ARG	2.2
1	A	160	GLU	2.2
1	A	198	MET	2.2
1	A	262	LEU	2.1
1	A	185	THR	2.1
1	A	114	ASN	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](#)

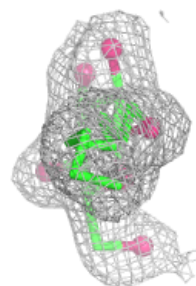
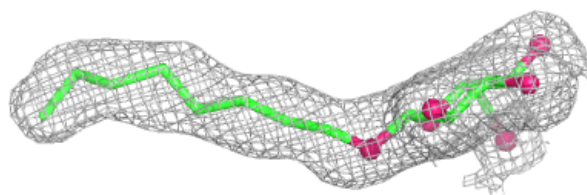
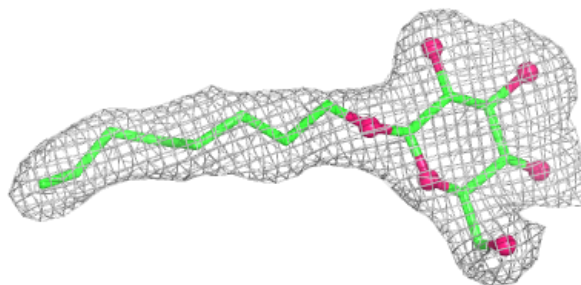
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists 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
4	EDO	A	363	4/4	0.81	0.23	52,52,52,52	0
3	BOG	A	362	20/20	0.92	0.08	23,27,29,30	0
2	BMU	A	361	21/21	0.95	0.06	14,17,21,24	0

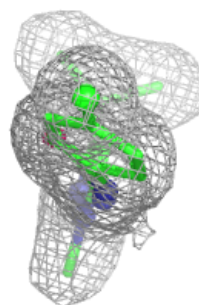
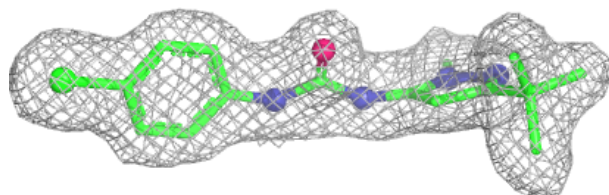
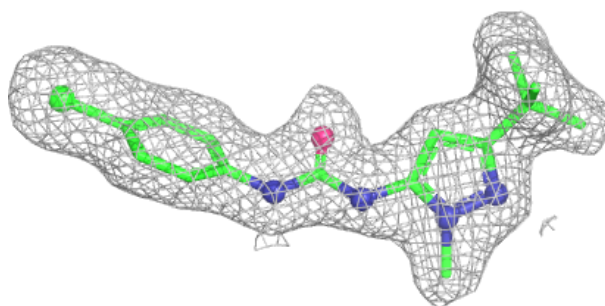
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

Electron density around BOG A 362:

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

**Electron density around BMU A 361:**

$2mF_o-DF_c$ (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.