Full wwPDB X-ray Structure Validation Report ⓘ

Mar 6, 2026 – 02:35 PM UTC

PDB ID	:	1Q66 / pdb_00001q66
Title	:	CRYSTAL STRUCTURE OF TGT IN COMPLEX WITH 2-AMINO-6-AMINOMETHYL-8-phenylsulfanylmethyl-3H-QUINAZOLIN-4-ONE crystallized at pH 5.5
Authors	:	Brenk, R.; Meyer, E.; Reuter, K.; Stubbs, M.T.; Garcia, G.A.; Klebe, G.
Deposited on	:	2003-08-12
Resolution	:	1.75 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:

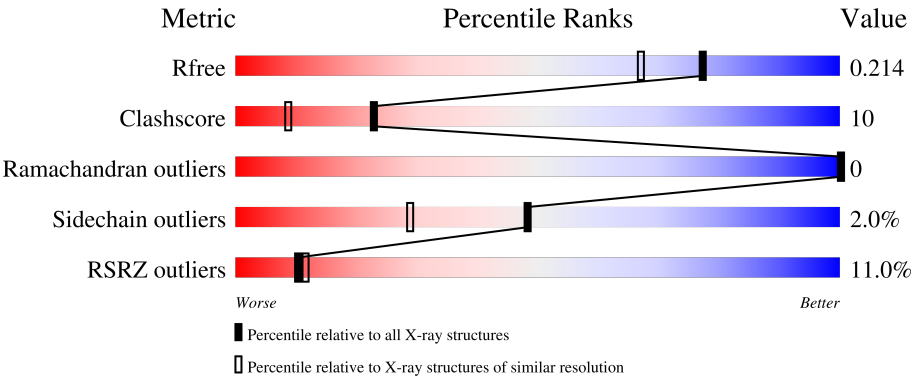
MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal 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 (i)

The following experimental techniques were used to determine the structure:
X-RAY DIFFRACTION

The reported resolution of this entry is 1.75 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	3183 (1.76-1.76)
Clashscore	190562	3299 (1.76-1.76)
Ramachandran outliers	187476	3274 (1.76-1.76)
Sidechain outliers	187428	3274 (1.76-1.76)
RSRZ outliers	180081	3183 (1.76-1.76)

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	386	10% 72% 21% • 6%

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 3264 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.

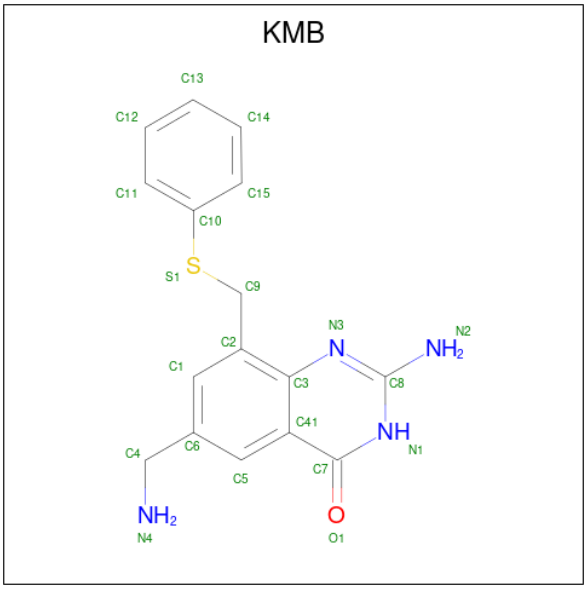
- Molecule 1 is a protein called Queuine tRNA-ribosyltransferase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	364	2845	1786	514	524	21	42	0	0

- Molecule 2 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	Zn		
2	A	1	1	1	0	0

- Molecule 3 is 2-AMINO-6-AMINOMETHYL-8-PHENYLSULFANYLMETHYL-3H-QUINAZOLIN-4-ONE (CCD ID: KMB) (formula: $C_{16}H_{16}N_4OS$).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	N	O	S		
3	A	1	44	32	8	2	2	11	1

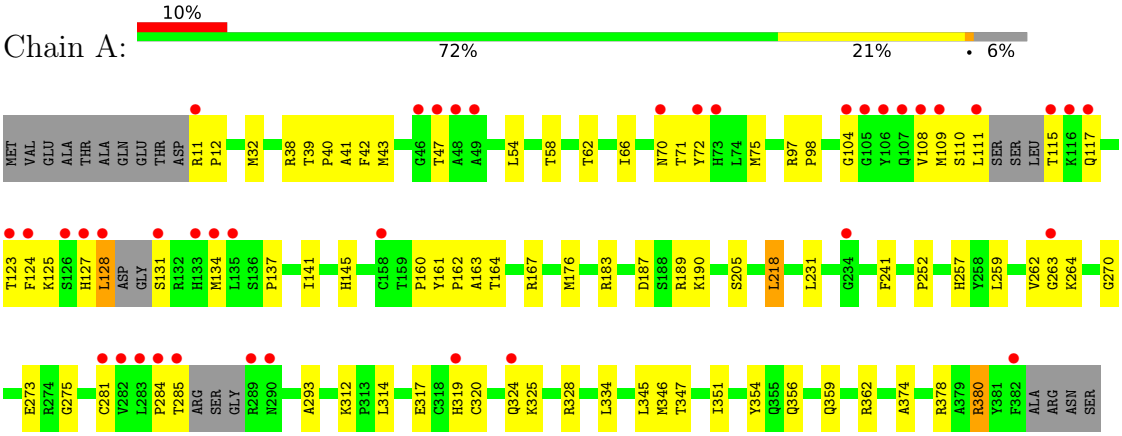
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	374	Total	O	0	0
			374	374		

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: Queuine tRNA-ribosyltransferase



4 Data and refinement statistics (i)

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α, β, γ	91.40Å 65.09Å 69.85Å 90.00° 95.85° 90.00°	Depositor
Resolution (Å)	40.00 – 1.75 40.00 – 1.75	Depositor EDS
% Data completeness (in resolution range)	92.6 (40.00-1.75) 92.6 (40.00-1.75)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.04	Depositor
$< I/\sigma(I) >$ [1]	1.91 (at 1.70Å)	Xtriage
Refinement program	CNS	Depositor
R, R_{free}	0.189 , 0.210 0.192 , 0.214	Depositor DCC
R_{free} test set	3901 reflections (9.29%)	wwPDB-VP
Wilson B-factor (Å^2)	21.8	Xtriage
Anisotropy	0.234	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.37 , 49.4	EDS
L-test for twinning[2]	$< \|L\| > = 0.49$, $< L^2 > = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.95	EDS
Total number of atoms	3264	wwPDB-VP
Average B, all atoms (Å^2)	25.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.75% of the height of the origin peak. No significant pseudotranslation is detected.*

[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: KMB, ZN

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	0.33	0/2904	0.79	3/3908 (0.1%)

There are no bond length outliers.

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	325	LYS	N-CA-C	5.46	120.59	113.88
1	A	205	SER	CB-CA-C	-5.40	110.37	116.63
1	A	190	LYS	N-CA-C	5.28	117.47	111.02

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	2845	0	2790	58	0
2	A	1	0	0	0	0
3	A	44	0	32	2	0
4	A	374	0	0	4	0
All	All	3264	0	2822	58	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 10.

All (58) 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:263:GLY:HA3	1:A:281:CYS:SG	2.06	0.94
1:A:72:TYR:HA	1:A:75:MET:HE3	1.52	0.92
1:A:183:ARG:HD2	1:A:187:ASP:OD2	1.88	0.73
1:A:319:HIS:H	1:A:356:GLN:HE22	1.39	0.68
1:A:71:THR:HG22	1:A:75:MET:HE2	1.78	0.65
1:A:11:ARG:HG3	4:A:1389:HOH:O	2.00	0.61
1:A:164:THR:OG1	1:A:167:ARG:HG2	2.00	0.60
1:A:43:MET:HG2	1:A:66:ILE:HG23	1.84	0.60
1:A:39:THR:HA	1:A:40:PRO:C	2.28	0.59
1:A:167:ARG:HD3	4:A:1113:HOH:O	2.03	0.59
1:A:231:LEU:O	3:A:900[B]:KMB:H41	2.03	0.58
1:A:281:CYS:SG	1:A:284:PRO:HD3	2.44	0.57
1:A:134:MET:HG3	4:A:1159:HOH:O	2.04	0.57
1:A:374:ALA:HB1	1:A:378:ARG:HH12	1.70	0.57
1:A:104:GLY:O	1:A:108:VAL:HG23	2.05	0.56
1:A:128:LEU:C	1:A:128:LEU:HD22	2.32	0.55
1:A:252:PRO:O	1:A:257:HIS:HE1	1.90	0.55
1:A:125:LYS:HA	1:A:131:SER:O	2.08	0.54
1:A:176:MET:SD	1:A:218:LEU:HD13	2.48	0.54
1:A:293:ALA:HB2	1:A:346:MET:HE1	1.90	0.52
1:A:359:GLN:NE2	1:A:362:ARG:HH21	2.07	0.52
1:A:42:PHE:CZ	1:A:284:PRO:HG2	2.44	0.52
1:A:110:SER:C	1:A:111:LEU:HD12	2.35	0.51
1:A:109:MET:HG3	4:A:1391:HOH:O	2.10	0.51
1:A:127:HIS:CE1	1:A:128:LEU:HD12	2.46	0.50
1:A:263:GLY:O	1:A:354:TYR:HE2	1.95	0.49
1:A:47:THR:O	1:A:70:ASN:HB3	2.13	0.49
1:A:109:MET:HE2	1:A:117:GLN:CD	2.38	0.49
1:A:38:ARG:O	1:A:41:ALA:HB2	2.13	0.48
1:A:97:ARG:HB3	1:A:98:PRO:CD	2.44	0.48
1:A:263:GLY:O	1:A:354:TYR:CE2	2.67	0.47
1:A:11:ARG:HD2	1:A:32:MET:O	2.15	0.47
1:A:115:THR:HA	1:A:123:THR:O	2.15	0.47
1:A:374:ALA:HB1	1:A:378:ARG:NH1	2.29	0.46
1:A:11:ARG:HB3	1:A:12:PRO:HD2	1.97	0.46
1:A:58:THR:O	1:A:62:THR:HG23	2.16	0.46
1:A:273:GLU:OE1	1:A:378:ARG:NH2	2.35	0.45
1:A:72:TYR:O	1:A:75:MET:HG2	2.15	0.45
1:A:111:LEU:HD12	1:A:111:LEU:N	2.32	0.45
1:A:115:THR:HG22	1:A:124:PHE:HB3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:285:THR:HG22	1:A:347:THR:HG23	1.97	0.44
1:A:317:GLU:OE2	1:A:380:ARG:NH2	2.45	0.44
1:A:54:LEU:CD1	1:A:351:ILE:HD12	2.48	0.44
1:A:160:PRO:O	1:A:163:ALA:HB2	2.19	0.43
1:A:145:HIS:CD2	1:A:189:ARG:HD3	2.53	0.43
1:A:97:ARG:HB3	1:A:98:PRO:HD2	1.99	0.43
1:A:231:LEU:O	3:A:900[A]:KMB:H41	2.19	0.42
1:A:320:CYS:O	1:A:324:GLN:HG3	2.19	0.42
1:A:183:ARG:O	1:A:183:ARG:HD3	2.20	0.42
1:A:285:THR:HG22	1:A:347:THR:CG2	2.49	0.42
1:A:161:TYR:CD1	1:A:162:PRO:HA	2.56	0.41
1:A:259:LEU:HG	1:A:262:VAL:CG2	2.50	0.41
1:A:137:PRO:O	1:A:141:ILE:HG12	2.20	0.41
1:A:312:LYS:O	1:A:328:ARG:HG3	2.20	0.41
1:A:128:LEU:H	1:A:128:LEU:HD13	1.85	0.41
1:A:257:HIS:HD2	1:A:275:GLY:O	2.04	0.41
1:A:263:GLY:O	1:A:264:LYS:C	2.64	0.40
1:A:241:PHE:CZ	1:A:270:GLY:HA3	2.56	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	356/386 (92%)	346 (97%)	10 (3%)	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	297/315 (94%)	291 (98%)	6 (2%)	48 29

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

Mol	Chain	Res	Type
1	A	128	LEU
1	A	218	LEU
1	A	314	LEU
1	A	334	LEU
1	A	345	LEU
1	A	380	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (8) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	133	HIS
1	A	202	GLN
1	A	213	GLN
1	A	237	GLN
1	A	257	HIS
1	A	356	GLN
1	A	359	GLN
1	A	372	GLN

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)

Of 3 ligands modelled in this entry, 1 is monoatomic - 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	$\#\|Z\| > 2$
3	KMB	A	900[A]	-	24,24,24	1.87	10 (41%)	31,33,33	1.60	5 (16%)
3	KMB	A	900[B]	-	24,24,24	1.86	10 (41%)	31,33,33	1.69	7 (22%)

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	KMB	A	900[A]	-	-	0/7/7/7	0/3/3/3
3	KMB	A	900[B]	-	-	2/7/7/7	0/3/3/3

All (20) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	900[A]	KMB	C41-C7	3.76	1.53	1.47
3	A	900[B]	KMB	C41-C7	3.47	1.53	1.47
3	A	900[B]	KMB	C11-C10	2.89	1.44	1.39
3	A	900[B]	KMB	C7-N1	-2.60	1.33	1.37
3	A	900[A]	KMB	C7-N1	-2.56	1.33	1.37
3	A	900[A]	KMB	C11-C10	2.43	1.43	1.39
3	A	900[B]	KMB	C12-C11	2.42	1.43	1.38
3	A	900[B]	KMB	C5-C41	2.33	1.43	1.39
3	A	900[B]	KMB	C13-C12	2.31	1.43	1.38
3	A	900[A]	KMB	C14-C15	2.26	1.42	1.38
3	A	900[B]	KMB	C5-C6	2.22	1.43	1.39
3	A	900[B]	KMB	C41-C3	2.21	1.44	1.41
3	A	900[A]	KMB	C5-C6	2.20	1.43	1.39
3	A	900[A]	KMB	C12-C11	2.19	1.42	1.38
3	A	900[A]	KMB	C1-C6	2.16	1.43	1.39
3	A	900[A]	KMB	C14-C13	2.16	1.43	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	900[B]	KMB	C14-C13	2.09	1.42	1.38
3	A	900[B]	KMB	C1-C6	2.09	1.42	1.39
3	A	900[A]	KMB	C41-C3	2.07	1.44	1.41
3	A	900[A]	KMB	C1-C2	2.02	1.42	1.39

All (12) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	A	900[B]	KMB	C3-C41-C7	-5.08	114.54	119.42
3	A	900[A]	KMB	C3-C41-C7	-4.88	114.73	119.42
3	A	900[A]	KMB	C41-C3-N3	-3.50	118.88	122.33
3	A	900[B]	KMB	C41-C3-N3	-3.50	118.88	122.33
3	A	900[B]	KMB	C41-C7-N1	3.12	118.22	114.93
3	A	900[A]	KMB	C41-C7-N1	2.82	117.91	114.93
3	A	900[B]	KMB	C2-C3-N3	2.64	121.65	118.01
3	A	900[A]	KMB	C2-C3-N3	2.59	121.59	118.01
3	A	900[B]	KMB	C5-C41-C7	2.42	124.60	120.09
3	A	900[A]	KMB	C5-C41-C7	2.40	124.57	120.09
3	A	900[B]	KMB	C9-S1-C10	-2.27	98.57	103.08
3	A	900[B]	KMB	C6-C4-N4	-2.04	103.77	114.90

There are no chirality outliers.

All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	900[B]	KMB	C15-C10-S1-C9
3	A	900[B]	KMB	C11-C10-S1-C9

There are no ring outliers.

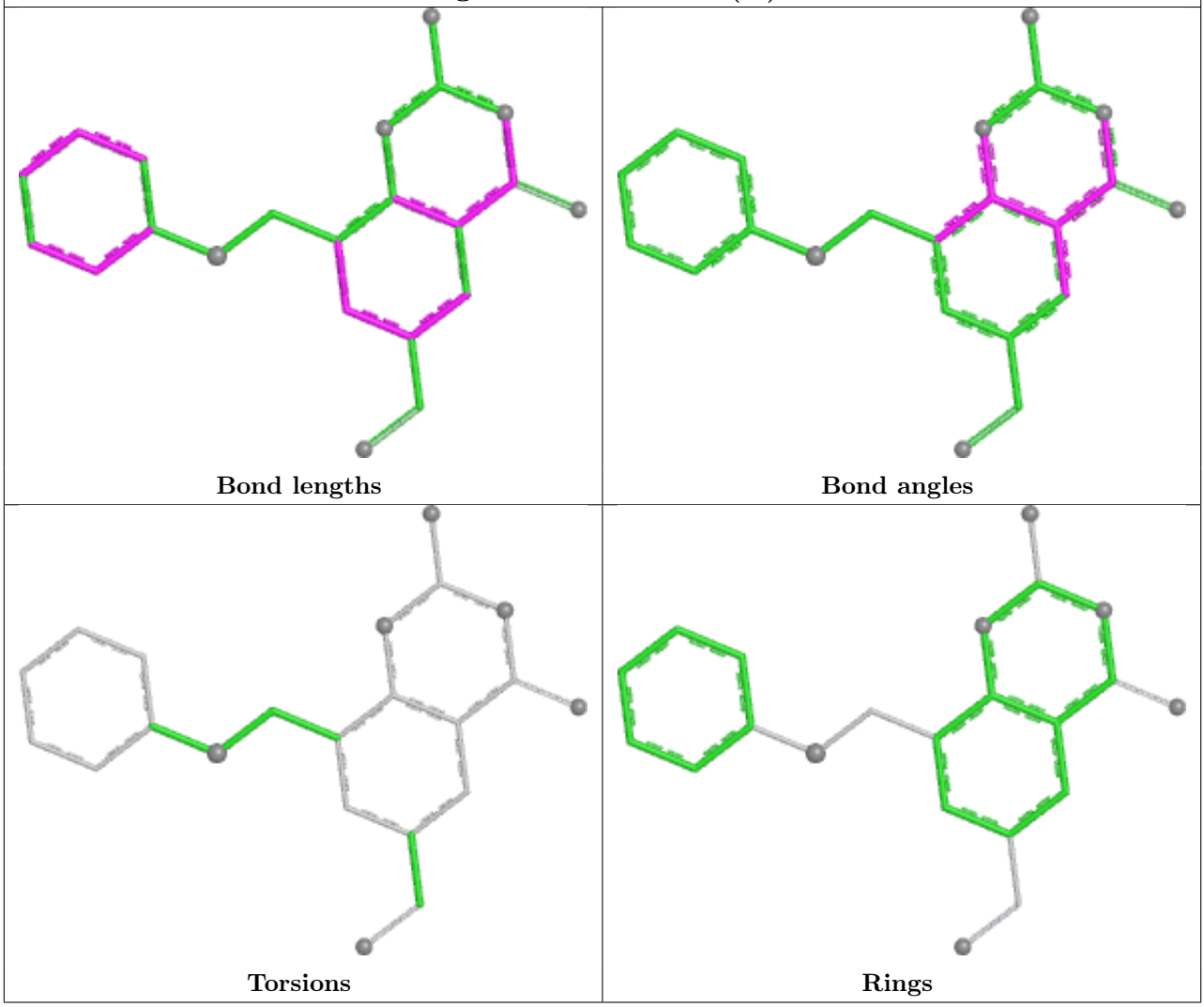
2 monomers are involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	900[A]	KMB	1	0
3	A	900[B]	KMB	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 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.

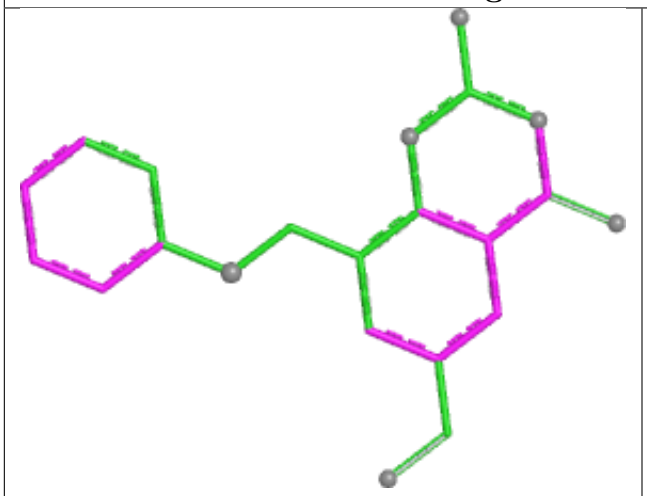
Ligand KMB A 900 (A)



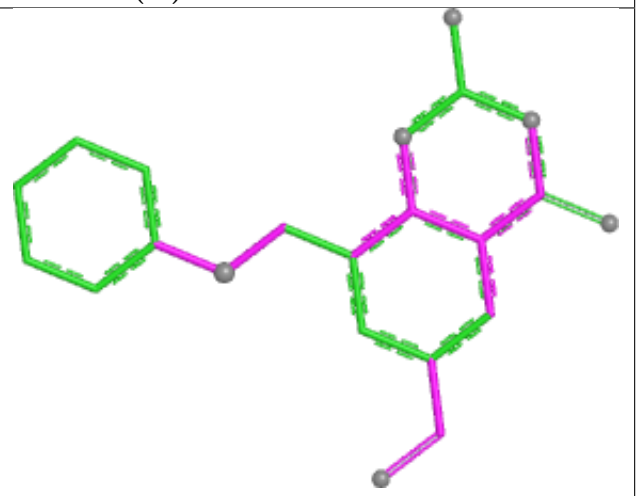
Bond lengths | **Bond angles**

Torsions | **Rings**

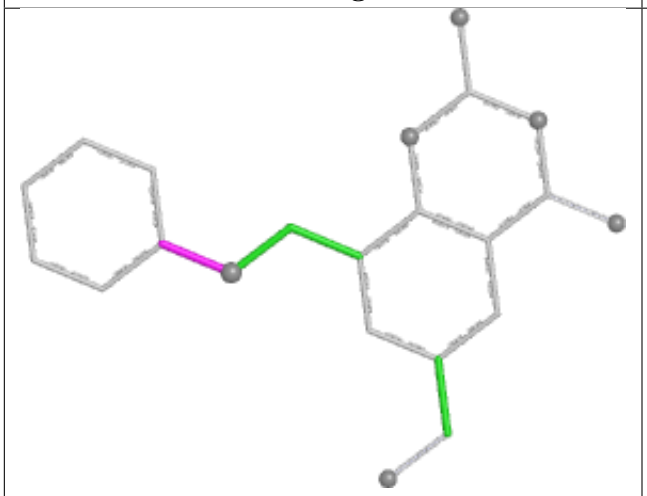
Ligand KMB A 900 (B)



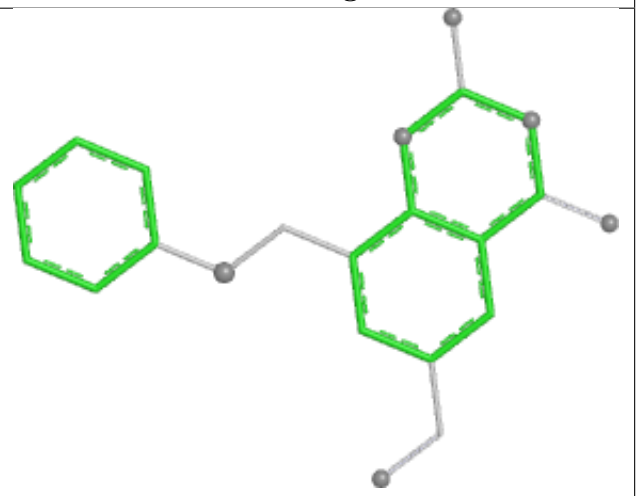
Bond lengths



Bond angles



Torsions



Rings

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

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, 95^{th} 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	364/386 (94%)	0.46	40 (10%)	10	11	14, 20, 43, 68	10 (2%)

All (40) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	283	LEU	6.7
1	A	106	TYR	5.6
1	A	47	THR	5.0
1	A	289	ARG	4.7
1	A	263	GLY	4.6
1	A	284	PRO	4.3
1	A	128	LEU	4.3
1	A	290	ASN	4.1
1	A	116	LYS	3.6
1	A	108	VAL	3.6
1	A	285	THR	3.6
1	A	134	MET	3.6
1	A	158	CYS	3.5
1	A	126	SER	3.5
1	A	382	PHE	3.4
1	A	70	ASN	3.4
1	A	115	THR	3.3
1	A	111	LEU	3.2
1	A	281	CYS	3.1
1	A	124	PHE	3.1
1	A	117	GLN	3.0
1	A	324	GLN	2.9
1	A	105	GLY	2.9
1	A	234	GLY	2.9
1	A	49	ALA	2.7
1	A	127	HIS	2.5
1	A	109	MET	2.5

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Mol	Chain	Res	Type	RSRZ
1	A	107	GLN	2.4
1	A	319	HIS	2.4
1	A	104	GLY	2.4
1	A	131	SER	2.3
1	A	73	HIS	2.3
1	A	72	TYR	2.3
1	A	282	VAL	2.3
1	A	133	HIS	2.2
1	A	135	LEU	2.2
1	A	46	GLY	2.1
1	A	11	ARG	2.1
1	A	48	ALA	2.1
1	A	123	THR	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)

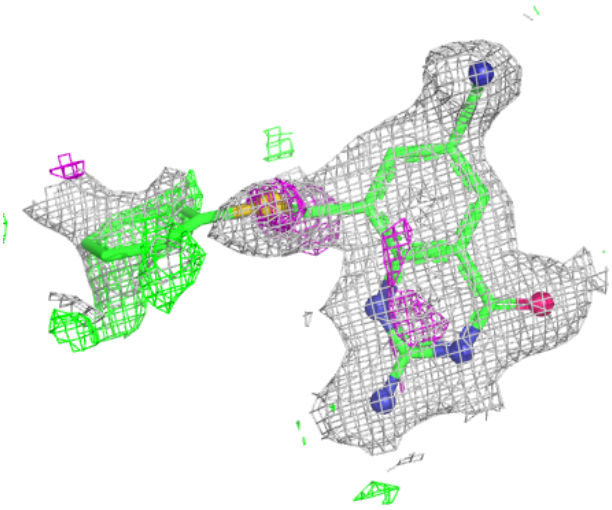
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9'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

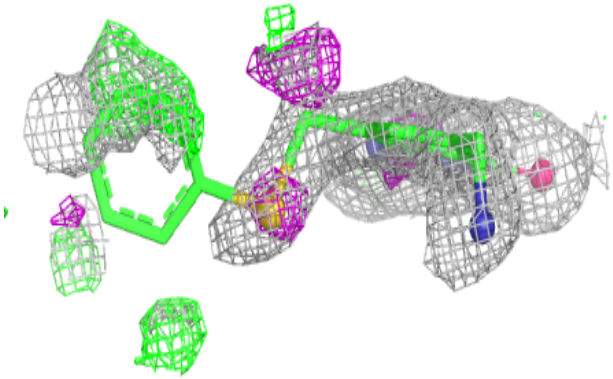
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
3	KMB	A	900[A]	22/22	0.89	0.10	21,26,27,28	22
3	KMB	A	900[B]	22/22	0.89	0.10	21,27,28,28	22
2	ZN	A	400	1/1	1.00	0.03	19,19,19,19	0

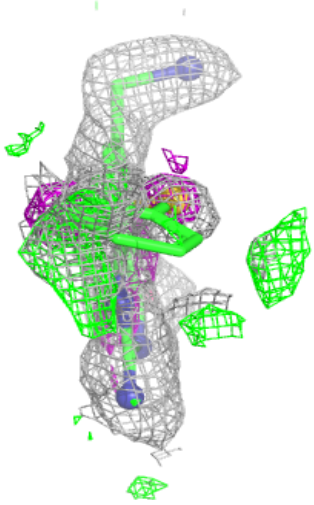
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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

Electron density around KMB A 900 (A):

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

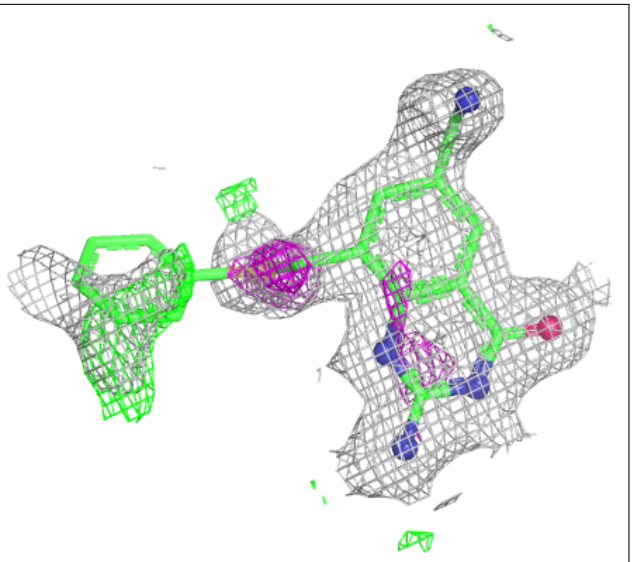


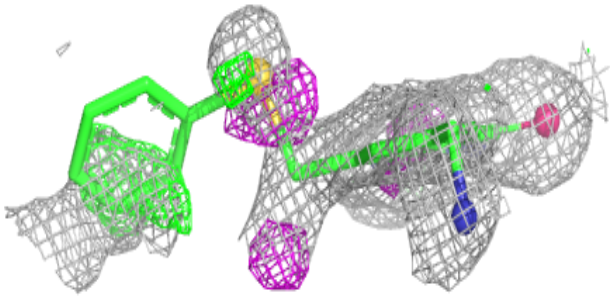


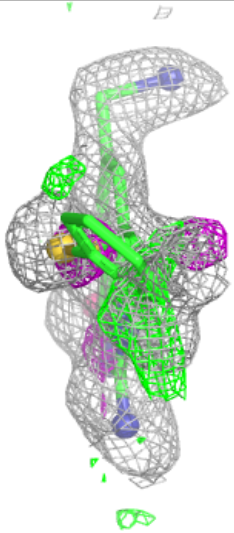


Electron density around KMB A 900 (B):

$2mF_o$-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.