



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 10, 2026 – 07:22 AM UTC

PDB ID : 5KPL / pdb_00005kpl
Title : Glycogen Synthase Kinase 3 beta Complexed with BRD0705
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Deposited on : 2016-07-04
Resolution : 2.60 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

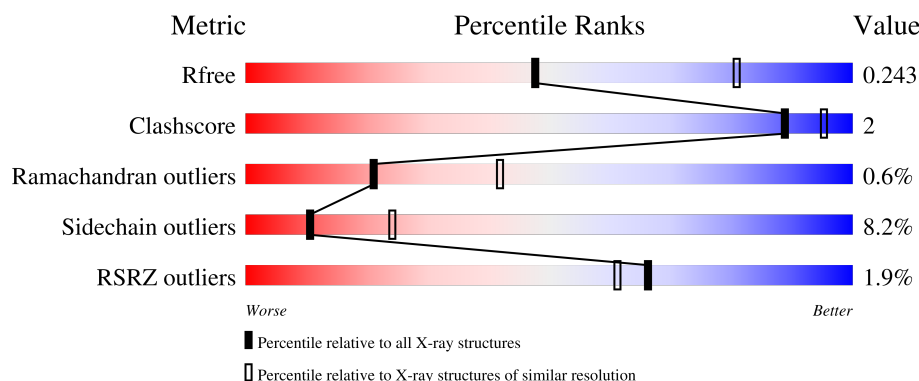
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.60 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	4008 (2.60-2.60)
Clashscore	190562	4347 (2.60-2.60)
Ramachandran outliers	187476	4277 (2.60-2.60)
Sidechain outliers	187428	4277 (2.60-2.60)
RSRZ outliers	180081	4008 (2.60-2.60)

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	424	2% 68%12%20%
1	B	424	% 69%11%20%

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 5573 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.

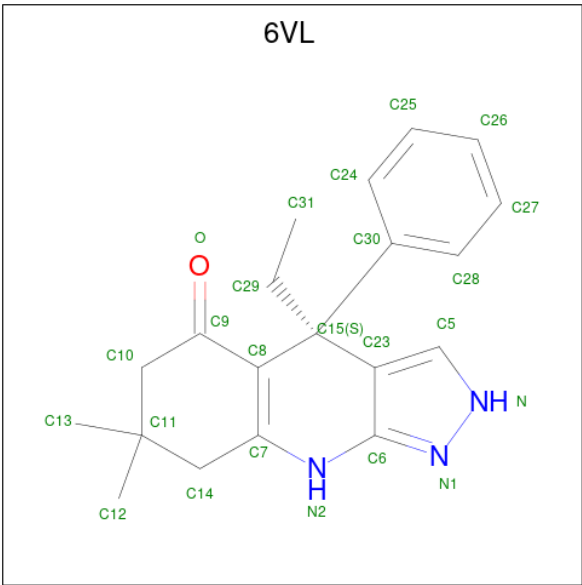
- Molecule 1 is a protein called Glycogen synthase kinase-3 beta.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	340	Total	C	N	O	P	S	0	1	0
			2718	1742	469	494	1	12			
1	B	340	Total	C	N	O	P	S	0	0	0
			2710	1737	467	494	1	11			

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-3	GLY	-	expression tag	UNP P49841
A	-2	SER	-	expression tag	UNP P49841
A	-1	PRO	-	expression tag	UNP P49841
A	0	GLY	-	expression tag	UNP P49841
B	-3	GLY	-	expression tag	UNP P49841
B	-2	SER	-	expression tag	UNP P49841
B	-1	PRO	-	expression tag	UNP P49841
B	0	GLY	-	expression tag	UNP P49841

- Molecule 2 is (4 {S})-4-ethyl-7,7-dimethyl-4-phenyl-2,6,8,9-tetrahydropyrazolo[3,4-b]quinolin-5-one (CCD ID: 6VL) (formula: C₂₀H₂₃N₃O).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	C	N	O	0	0
			24	20	3	1		
2	B	1	Total	C	N	O	0	0
			24	20	3	1		

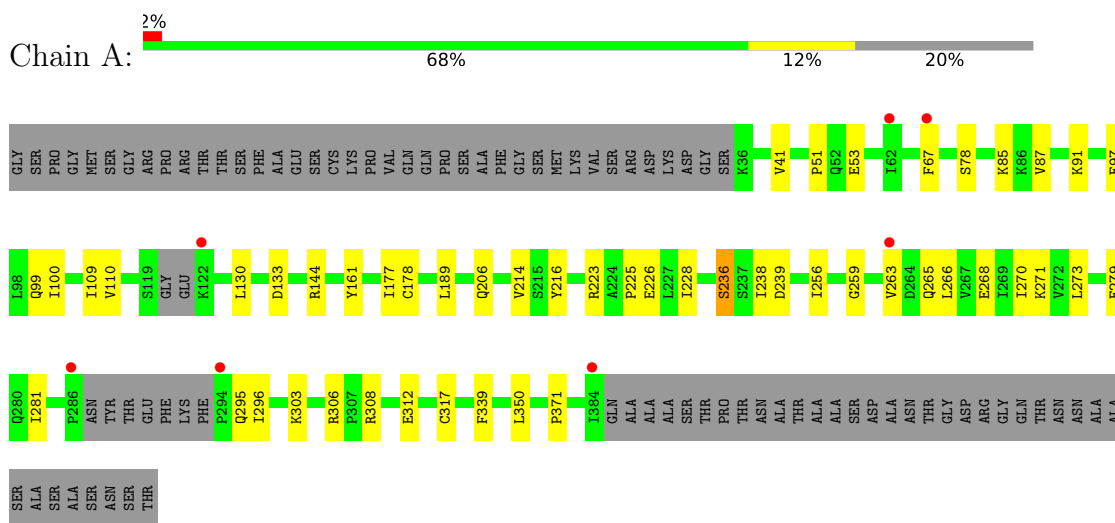
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	44	Total	O	0	0
			44	44		
3	B	53	Total	O	0	0
			53	53		

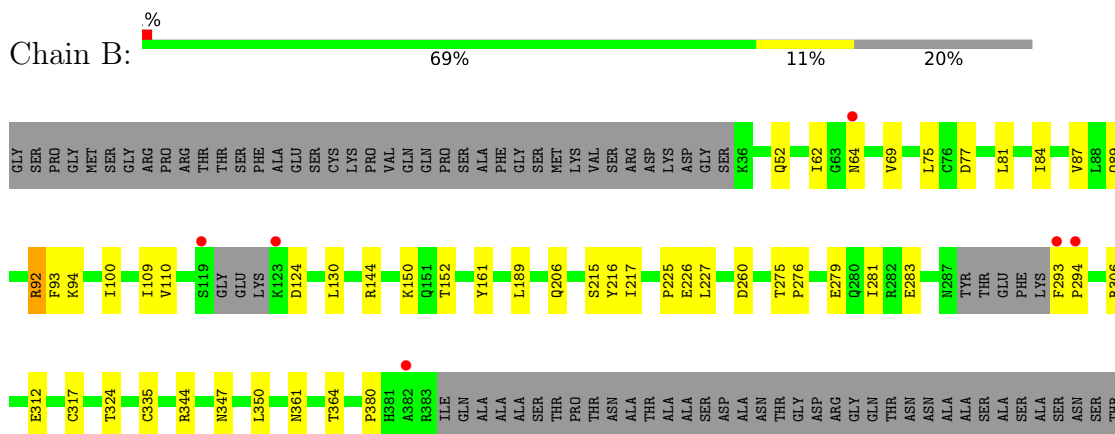
3 Residue-property plots [i](#)

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: Glycogen synthase kinase-3 beta



• Molecule 1: Glycogen synthase kinase-3 beta



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	104.62Å 85.43Å 112.07Å 90.00° 95.08° 90.00°	Depositor
Resolution (Å)	50.00 – 2.60 50.00 – 2.60	Depositor EDS
% Data completeness (in resolution range)	99.8 (50.00-2.60) 99.8 (50.00-2.60)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.59 (at 2.61Å)	Xtriage
Refinement program	REFMAC 5.8.0103	Depositor
R, R_{free}	0.178 , 0.244 0.183 , 0.243	Depositor DCC
R_{free} test set	1552 reflections (5.11%)	wwPDB-VP
Wilson B-factor (Å ²)	60.6	Xtriage
Anisotropy	0.542	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 41.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	5573	wwPDB-VP
Average B, all atoms (Å ²)	71.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.21% 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 [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: 6VL, PTR

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	0.89	1/2765 (0.0%)	1.02	4/3759 (0.1%)
1	B	0.96	1/2758 (0.0%)	1.05	0/3753
All	All	0.93	2/5523 (0.0%)	1.04	4/7512 (0.1%)

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	110	VAL	C-O	-5.95	1.18	1.24
1	A	109	ILE	C-O	-5.74	1.18	1.24

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	371	PRO	N-CA-C	6.62	118.78	110.70
1	A	256	ILE	N-CA-C	5.36	116.13	110.72
1	A	295	GLN	N-CA-C	5.35	117.35	108.20
1	A	223	ARG	NE-CZ-NH2	5.07	123.77	119.20

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

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	2718	0	2743	11	0
1	B	2710	0	2718	10	0
2	A	24	0	0	0	0
2	B	24	0	0	0	0
3	A	44	0	0	0	0
3	B	53	0	0	0	0
All	All	5573	0	5461	21	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 (21) 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:335:CYS:O	1:B:344:ARG:NH1	2.41	0.54
1:A:178:CYS:SG	1:A:236:SER:HA	2.51	0.51
1:B:62:ILE:O	1:B:62:ILE:HG13	2.11	0.50
1:A:161:TYR:CE1	1:A:189:LEU:HD11	2.46	0.50
1:A:100:ILE:HG23	1:A:177:ILE:HD13	1.94	0.49
1:B:217:ILE:HG22	1:B:227:LEU:HD13	1.94	0.48
1:A:85:LYS:NZ	1:A:97:GLU:OE1	2.49	0.46
1:A:228:ILE:HD11	1:A:265:GLN:HG3	1.97	0.45
1:A:259:GLY:HA2	1:A:268:GLU:HG3	1.97	0.45
1:B:293:PHE:HB2	1:B:294:PRO:HD2	1.99	0.44
1:B:92:ARG:HD3	1:B:93:PHE:CB	2.48	0.43
1:B:225:PRO:O	1:B:226:GLU:C	2.61	0.43
1:A:270:ILE:O	1:A:271:LYS:C	2.61	0.43
1:B:84:ILE:HA	1:B:130:LEU:O	2.19	0.43
1:A:41:VAL:HG12	1:A:51:PRO:HB3	2.01	0.43
1:B:276:PRO:HB2	1:B:281:ILE:HG13	2.01	0.42
1:B:283:GLU:HG3	1:B:324:THR:HG23	2.02	0.42
1:B:161:TYR:CE1	1:B:189:LEU:HD11	2.55	0.42
1:A:238:ILE:HG13	1:A:239:ASP:N	2.35	0.41
1:A:110:VAL:HG23	1:A:133:ASP:HB2	2.02	0.41
1:A:225:PRO:O	1:A:226:GLU:C	2.64	0.41

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	334/424 (79%)	309 (92%)	22 (7%)	3 (1%)	14	30
1	B	333/424 (78%)	312 (94%)	20 (6%)	1 (0%)	36	58
All	All	667/848 (79%)	621 (93%)	42 (6%)	4 (1%)	21	42

All (4) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	67	PHE
1	B	361	ASN
1	A	339	PHE
1	A	236	SER

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	301/365 (82%)	280 (93%)	21 (7%)	14	31
1	B	299/365 (82%)	271 (91%)	28 (9%)	8	18
All	All	600/730 (82%)	551 (92%)	49 (8%)	10	24

All (49) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	53	GLU
1	A	78	SER

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Mol	Chain	Res	Type
1	A	87	VAL
1	A	91	LYS
1	A	99	GLN
1	A	130	LEU
1	A	144	ARG
1	A	206	GLN
1	A	214	VAL
1	A	263	VAL
1	A	266	LEU
1	A	273	LEU
1	A	279	GLU
1	A	281	ILE
1	A	296	ILE
1	A	303	LYS
1	A	306	ARG
1	A	308	ARG
1	A	312	GLU
1	A	317	CYS
1	A	350	LEU
1	B	52	GLN
1	B	64	ASN
1	B	69	VAL
1	B	75	LEU
1	B	77	ASP
1	B	81	LEU
1	B	87	VAL
1	B	89	GLN
1	B	92	ARG
1	B	94	LYS
1	B	100	ILE
1	B	109	ILE
1	B	124	ASP
1	B	144	ARG
1	B	150	LYS
1	B	152	THR
1	B	206	GLN
1	B	215	SER
1	B	260	ASP
1	B	275	THR
1	B	279	GLU
1	B	306	ARG
1	B	312	GLU

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Mol	Chain	Res	Type
1	B	317	CYS
1	B	347	ASN
1	B	350	LEU
1	B	364	THR
1	B	380	PRO

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (4) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	285	ASN
1	B	89	GLN
1	B	129	ASN
1	B	299	HIS

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

2 non-standard protein/DNA/RNA residues 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	$\# Z > 2$
1	PTR	B	216	1	15,16,17	1.25	2 (13%)	17,22,24	1.13	1 (5%)
1	PTR	A	216	1	15,16,17	1.12	0	17,22,24	1.47	2 (11%)

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
1	PTR	B	216	1	-	0/10/11/13	0/1/1/1
1	PTR	A	216	1	-	0/10/11/13	0/1/1/1

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	216	PTR	CE2-CD2	2.50	1.42	1.38
1	B	216	PTR	CD2-CG	2.15	1.43	1.38

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	216	PTR	O3P-P-O2P	3.81	122.07	107.80
1	A	216	PTR	O3P-P-OH	-3.11	96.12	105.32
1	B	216	PTR	O3P-P-O1P	2.82	121.81	110.83

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

2 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	6VL	A	500	-	25,27,27	2.37	6 (24%)	34,42,42	3.24	13 (38%)
2	6VL	B	500	-	25,27,27	2.39	7 (28%)	34,42,42	2.88	10 (29%)

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	6VL	A	500	-	-	1/9/43/43	0/4/4/4
2	6VL	B	500	-	-	0/9/43/43	0/4/4/4

All (13) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	500	6VL	C7-C8	9.92	1.49	1.37
2	B	500	6VL	C7-C8	9.15	1.48	1.37
2	B	500	6VL	N-N1	4.22	1.44	1.36
2	A	500	6VL	N-N1	3.41	1.42	1.36
2	A	500	6VL	C5-C23	2.72	1.42	1.38
2	B	500	6VL	C6-N1	2.71	1.36	1.32
2	B	500	6VL	C6-N2	-2.61	1.32	1.37
2	B	500	6VL	C7-N2	-2.52	1.33	1.37
2	B	500	6VL	C14-C7	2.44	1.53	1.50
2	B	500	6VL	C5-C23	2.31	1.41	1.38
2	A	500	6VL	C6-N1	2.16	1.35	1.32
2	A	500	6VL	C7-N2	-2.14	1.34	1.37
2	A	500	6VL	C14-C7	2.13	1.52	1.50

All (23) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	500	6VL	C5-C23-C6	10.05	109.86	103.29
2	A	500	6VL	C5-C23-C6	9.42	109.45	103.29
2	A	500	6VL	C23-C6-N1	-9.41	107.67	113.53
2	B	500	6VL	C23-C6-N1	-7.64	108.77	113.53
2	A	500	6VL	C6-N1-N	6.10	107.94	103.35
2	A	500	6VL	C29-C15-C23	-4.91	107.56	113.84
2	B	500	6VL	C29-C15-C23	-4.64	107.91	113.84
2	A	500	6VL	C23-C6-N2	4.35	125.95	122.99
2	A	500	6VL	O-C9-C8	-4.17	115.94	121.53
2	B	500	6VL	C8-C7-N2	-3.83	119.02	122.11
2	B	500	6VL	N2-C6-N1	3.74	127.15	123.39
2	A	500	6VL	C29-C15-C8	-3.58	108.28	113.64
2	A	500	6VL	C10-C11-C14	3.54	113.76	108.12
2	B	500	6VL	C6-N1-N	3.49	105.98	103.35
2	A	500	6VL	C8-C7-N2	-3.26	119.48	122.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	500	6VL	N2-C6-N1	2.98	126.38	123.39
2	B	500	6VL	C14-C7-N2	2.94	118.84	115.39
2	B	500	6VL	C29-C15-C8	-2.76	109.51	113.64
2	A	500	6VL	C14-C7-N2	2.49	118.30	115.39
2	A	500	6VL	C9-C8-C7	-2.41	117.05	119.18
2	A	500	6VL	C5-N-N1	-2.25	109.14	112.59
2	B	500	6VL	C11-C10-C9	-2.17	111.04	114.44
2	B	500	6VL	C9-C8-C7	-2.13	117.29	119.18

There are no chirality outliers.

All (1) torsion outliers are listed below:

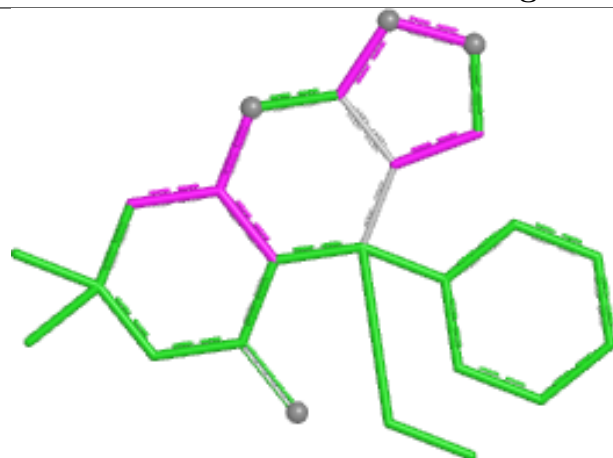
Mol	Chain	Res	Type	Atoms
2	A	500	6VL	C8-C15-C29-C31

There are no ring outliers.

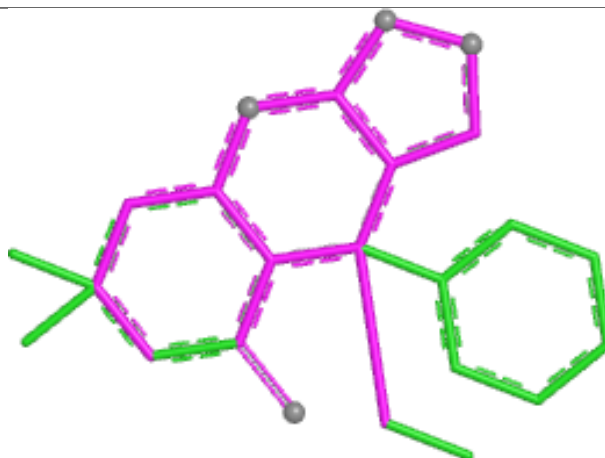
No monomer is involved in short contacts.

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.

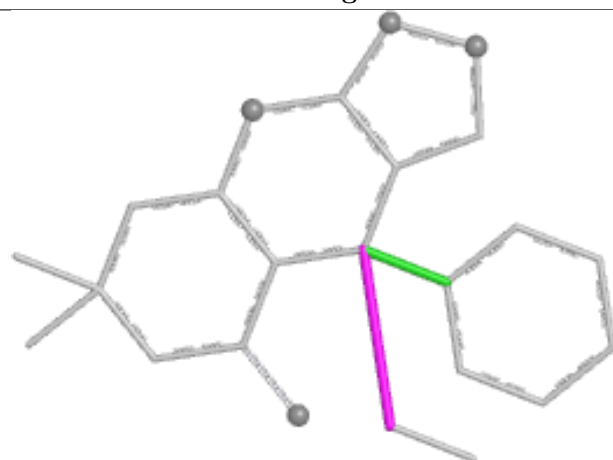
Ligand 6VL A 500



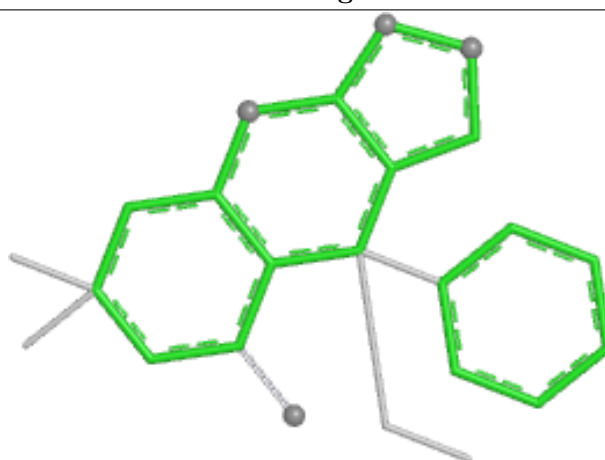
Bond lengths



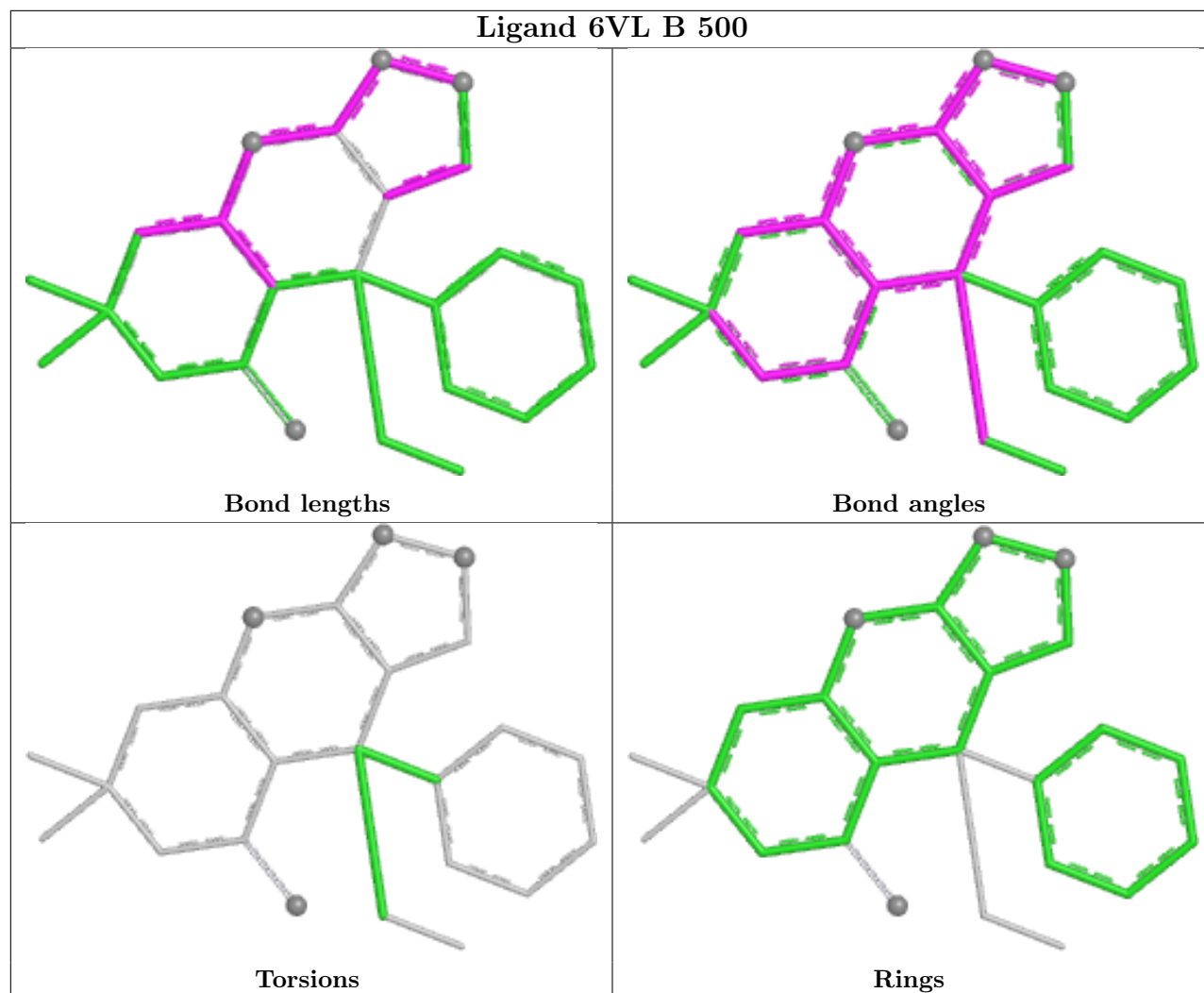
Bond angles



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 [i](#)

6.1 Protein, DNA and RNA chains [i](#)

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	339/424 (79%)	-0.10	7 (2%) 63 58	24, 69, 112, 145	1 (0%)
1	B	339/424 (79%)	-0.17	6 (1%) 67 63	44, 65, 109, 141	0
All	All	678/848 (79%)	-0.14	13 (1%) 66 61	24, 67, 111, 145	1 (0%)

All (13) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	294	PRO	4.9
1	A	384	ILE	3.8
1	A	67	PHE	3.6
1	B	294	PRO	3.2
1	B	123	LYS	3.1
1	A	286	PRO	3.1
1	A	122	LYS	2.4
1	B	293	PHE	2.4
1	B	382	ALA	2.1
1	B	64	ASN	2.1
1	B	119	SER	2.1
1	A	62	ILE	2.0
1	A	263	VAL	2.0

6.2 Non-standard residues in protein, DNA, RNA chains [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
1	PTR	A	216	16/17	0.94	0.12	45,54,60,60	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
1	PTR	B	216	16/17	0.98	0.05	44,50,57,59	0

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

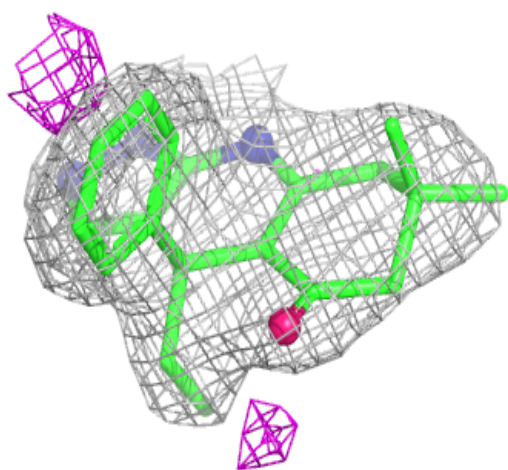
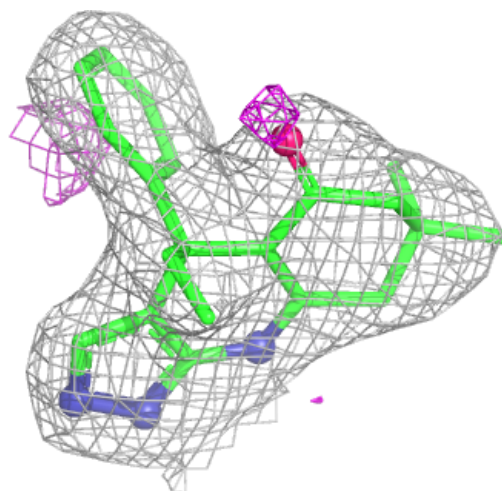
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists 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	6VL	B	500	24/24	0.96	0.07	43,55,70,73	0
2	6VL	A	500	24/24	0.97	0.07	52,58,67,69	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.

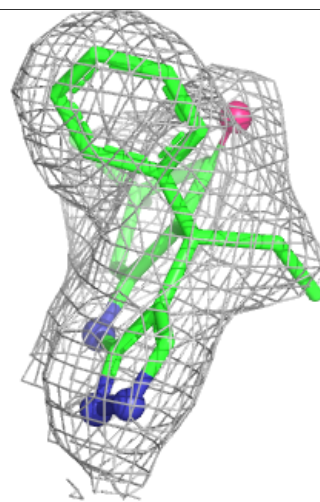
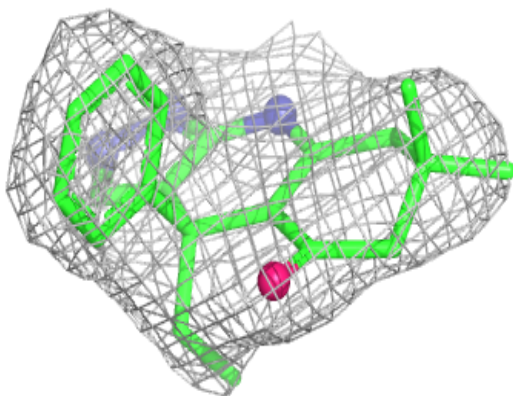
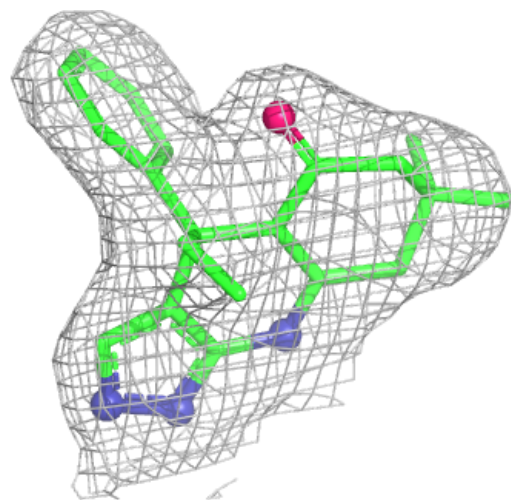
Electron density around 6VL B 500:

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



Electron density around 6VL A 500:

$2mF_o-DF_c$ (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.