



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 18, 2026 – 08:22 AM UTC

PDB ID : 4MCV / pdb_00004mcv
Title : Star 12 bound to analog-sensitive Src kinase
Authors : Lopez, M.S.; Shokat, K.M.
Deposited on : 2013-08-21
Resolution : 2.73 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

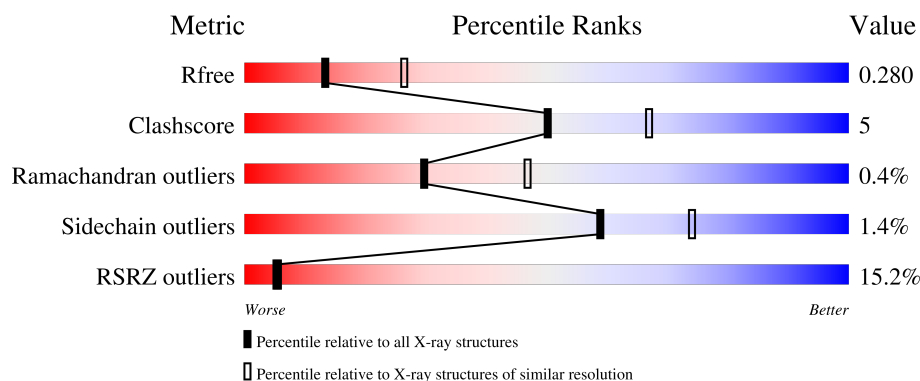
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.73 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	1819 (2.76-2.72)
Clashscore	190562	1866 (2.76-2.72)
Ramachandran outliers	187476	1830 (2.76-2.72)
Sidechain outliers	187428	1831 (2.76-2.72)
RSRZ outliers	180081	1819 (2.76-2.72)

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	278	
1	B	278	

2 Entry composition [i](#)

There are 2 unique types of molecules in this entry. The entry contains 4286 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.

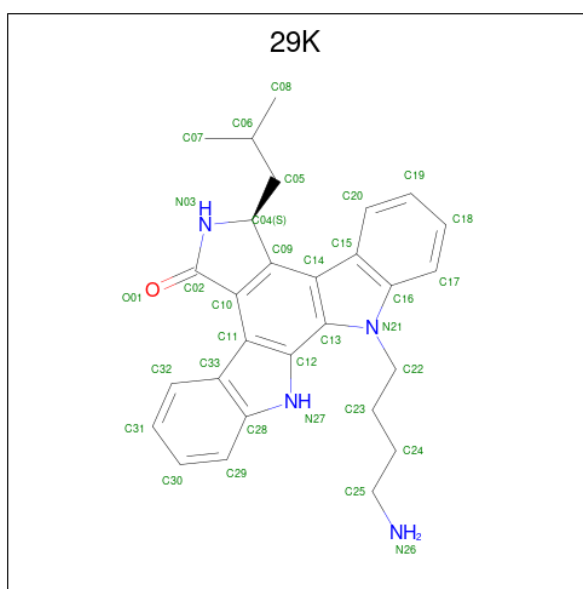
- Molecule 1 is a protein called Proto-oncogene tyrosine-protein kinase Src.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	267	Total	C	N	O	S	0	0	0
			2114	1357	355	385	17			
1	B	265	Total	C	N	O	S	0	0	0
			2106	1357	352	380	17			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	338	GLY	THR	engineered mutation	UNP P00523
B	338	GLY	THR	engineered mutation	UNP P00523

- Molecule 2 is (7S)-12-(4-aminobutyl)-7-(2-methylpropyl)-6,7,12,13-tetrahydro-5H-indolo[2,3-a]pyrrolo[3,4-c]carbazol-5-one (CCD ID: 29K) (formula: C₂₈H₃₀N₄O).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	C	N	O	0	0
			33	28	4	1		

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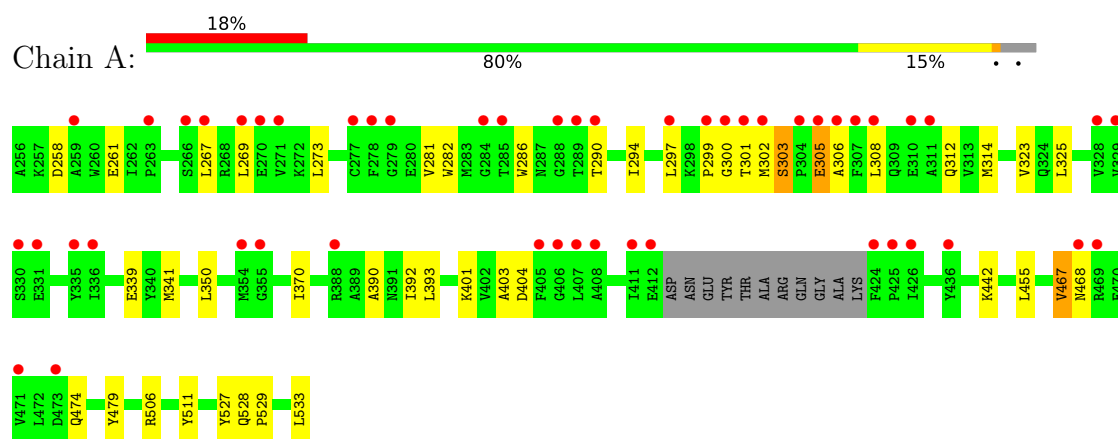
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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	N	O		
2	B	1	33	28	4	1	0	0

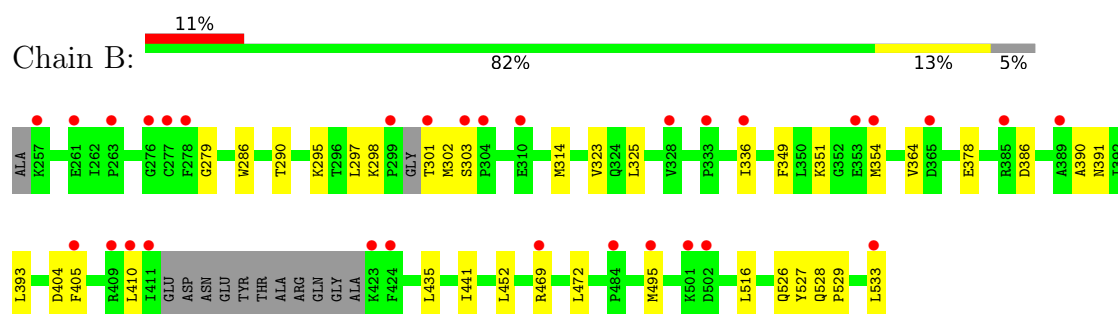
3 Residue-property plots

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: Proto-oncogene tyrosine-protein kinase Src



- Molecule 1: Proto-oncogene tyrosine-protein kinase Src



4 Data and refinement statistics

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	42.34Å 63.34Å 73.62Å 100.34° 90.81° 89.95°	Depositor
Resolution (Å)	43.53 – 2.73 43.53 – 2.73	Depositor EDS
% Data completeness (in resolution range)	96.6 (43.53-2.73) 89.6 (43.53-2.73)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.12 (at 2.73Å)	Xtriage
Refinement program	PHENIX 1.7.3_928	Depositor
R, R_{free}	0.238 , 0.290 0.229 , 0.280	Depositor DCC
R_{free} test set	1940 reflections (6.55%)	wwPDB-VP
Wilson B-factor (Å ²)	39.7	Xtriage
Anisotropy	0.267	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.30 , 36.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	0.038 for h,-k,-l	Xtriage
F_o, F_c correlation	0.90	EDS
Total number of atoms	4286	wwPDB-VP
Average B, all atoms (Å ²)	54.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 17.38% 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: 29K

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	0.28	0/2165	0.74	3/2934 (0.1%)
1	B	0.28	0/2157	0.74	2/2922 (0.1%)
All	All	0.28	0/4322	0.74	5/5856 (0.1%)

There are no bond length outliers.

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	303	SER	CA-C-N	6.70	127.10	119.93
1	A	303	SER	C-N-CA	6.70	127.10	119.93
1	B	303	SER	CA-C-N	5.31	125.29	120.03
1	B	303	SER	C-N-CA	5.31	125.29	120.03
1	A	305	GLU	N-CA-C	5.25	120.34	112.94

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	2114	0	2083	24	0
1	B	2106	0	2080	20	0
2	A	33	0	30	2	0
2	B	33	0	30	3	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
All	All	4286	0	4223	45	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 5.

All (45) 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:286:TRP:HB3	1:A:290:THR:HB	1.70	0.71
2:B:601:29K:H2	2:B:601:29K:H11	1.75	0.68
2:A:601:29K:H11	2:A:601:29K:H2	1.81	0.63
1:A:258:ASP:HB3	1:A:261:GLU:HB2	1.84	0.60
1:B:527:TYR:OH	1:B:533:LEU:OXT	2.19	0.59
1:A:323:VAL:HG21	1:A:393:LEU:HD12	1.86	0.57
1:B:323:VAL:HG21	1:B:393:LEU:HD12	1.90	0.53
1:A:350:LEU:HD11	1:A:455:LEU:HD23	1.91	0.52
1:A:314:MET:HE2	1:A:325:LEU:HB2	1.91	0.52
1:A:305:GLU:N	1:A:306:ALA:HA	2.25	0.51
1:B:298:LYS:O	1:B:301:THR:OG1	2.26	0.51
1:A:273:LEU:HD12	1:A:281:VAL:HG12	1.96	0.48
1:A:442:LYS:NZ	1:A:506:ARG:O	2.43	0.48
1:B:452:LEU:HB3	1:B:495:MET:HE2	1.95	0.48
1:B:378:GLU:HB3	1:B:441:ILE:HG12	1.96	0.47
1:A:527:TYR:OH	1:A:533:LEU:OXT	2.29	0.47
1:B:469:ARG:HH11	1:B:469:ARG:HA	1.79	0.47
1:B:279:GLY:HA2	1:B:298:LYS:HG3	1.96	0.46
1:B:297:LEU:HD21	1:B:302:MET:HB2	1.97	0.46
1:A:474:GLN:HG3	1:A:479:TYR:HB3	1.98	0.45
1:B:286:TRP:HB3	1:B:290:THR:HB	1.97	0.45
1:B:295:LYS:HG3	2:B:601:29K:H13	1.99	0.45
1:B:349:PHE:CZ	1:B:354:MET:HG2	2.53	0.44
1:B:314:MET:HE2	1:B:325:LEU:HB2	2.00	0.43
1:A:390:ALA:O	2:A:601:29K:N26	2.52	0.43
1:B:364:VAL:HG13	1:B:516:LEU:HD22	2.01	0.43
1:A:511:TYR:HE1	1:B:351:LYS:O	2.02	0.43
1:B:390:ALA:O	2:B:601:29K:N26	2.52	0.43
1:A:299:PRO:HA	1:A:300:GLY:HA2	1.55	0.42
1:A:341:MET:HG3	1:A:393:LEU:HB3	2.02	0.42
1:B:386:ASP:O	1:B:391:ASN:ND2	2.43	0.42
1:A:269:LEU:HG	1:A:294:ILE:HD12	2.02	0.41
1:A:467:VAL:HG12	1:A:468:ASN:H	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:528:GLN:HA	1:A:529:PRO:HD3	1.93	0.41
1:A:370:ILE:HD13	1:A:392:ILE:HD13	2.02	0.41
1:B:295:LYS:HB2	1:B:336:ILE:HB	2.02	0.41
1:B:314:MET:HG2	1:B:405:PHE:HD2	1.86	0.41
1:A:305:GLU:N	1:A:306:ALA:CA	2.83	0.41
1:A:269:LEU:HD23	1:A:282:TRP:CG	2.56	0.40
1:A:339:GLU:OE2	1:A:401:LYS:NZ	2.42	0.40
1:A:302:MET:HA	1:A:303:SER:HB3	2.03	0.40
1:A:308:LEU:O	1:A:312:GLN:HG2	2.21	0.40
1:A:323:VAL:HG21	1:A:403:ALA:HB2	2.04	0.40
1:B:435:LEU:HD21	1:B:472:LEU:HD21	2.03	0.40
1:B:528:GLN:HA	1:B:529:PRO:HD2	1.95	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	263/278 (95%)	247 (94%)	15 (6%)	1 (0%)	30	47
1	B	259/278 (93%)	247 (95%)	11 (4%)	1 (0%)	30	47
All	All	522/556 (94%)	494 (95%)	26 (5%)	2 (0%)	30	47

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	404	ASP
1	B	404	ASP

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	222/238 (93%)	218 (98%)	4 (2%)	51	69
1	B	222/238 (93%)	220 (99%)	2 (1%)	70	82
All	All	444/476 (93%)	438 (99%)	6 (1%)	59	74

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

Mol	Chain	Res	Type
1	A	267	LEU
1	A	297	LEU
1	A	301	THR
1	A	467	VAL
1	B	410	LEU
1	B	526	GLN

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	287	ASN
1	A	312	GLN
1	A	492	HIS
1	B	287	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](#)

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	29K	B	601	-	37,38,38	2.55	11 (29%)	48,57,57	3.62	3 (6%)
2	29K	A	601	-	37,38,38	2.56	11 (29%)	48,57,57	3.62	3 (6%)

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	29K	B	601	-	-	2/9/21/21	0/6/6/6
2	29K	A	601	-	-	3/9/21/21	0/6/6/6

All (22) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	601	29K	C02-N03	11.44	1.44	1.34
2	B	601	29K	C02-N03	11.42	1.44	1.34
2	A	601	29K	C11-C10	4.95	1.49	1.40
2	B	601	29K	C11-C10	4.90	1.49	1.40
2	A	601	29K	C14-C09	4.00	1.47	1.40
2	B	601	29K	C14-C09	3.98	1.47	1.40
2	A	601	29K	C32-C33	3.16	1.44	1.40
2	B	601	29K	C32-C33	3.14	1.44	1.40
2	A	601	29K	C19-C18	3.02	1.44	1.38
2	B	601	29K	C19-C18	2.98	1.44	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	601	29K	C30-C29	2.66	1.43	1.38
2	A	601	29K	C12-C13	2.56	1.47	1.40
2	A	601	29K	C30-C29	2.56	1.43	1.38
2	B	601	29K	C12-C13	2.51	1.47	1.40
2	A	601	29K	O01-C02	2.47	1.29	1.23
2	B	601	29K	O01-C02	2.46	1.29	1.23
2	B	601	29K	C17-C16	2.43	1.43	1.39
2	A	601	29K	C17-C16	2.40	1.43	1.39
2	A	601	29K	C04-N03	-2.26	1.43	1.46
2	A	601	29K	C13-N21	2.25	1.43	1.40
2	B	601	29K	C13-N21	2.20	1.43	1.40
2	B	601	29K	C04-N03	-2.16	1.43	1.46

All (6) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	601	29K	C09-C04-N03	22.17	107.93	101.46
2	A	601	29K	C09-C04-N03	21.83	107.83	101.46
2	A	601	29K	C05-C04-N03	-10.19	101.40	113.32
2	B	601	29K	C05-C04-N03	-9.60	102.09	113.32
2	B	601	29K	C04-N03-C02	-3.92	108.23	113.61
2	A	601	29K	C04-N03-C02	-3.85	108.33	113.61

There are no chirality outliers.

All (5) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	601	29K	N03-C04-C05-C06
2	B	601	29K	N03-C04-C05-C06
2	B	601	29K	N21-C22-C23-C24
2	A	601	29K	N21-C22-C23-C24
2	A	601	29K	C22-C23-C24-C25

There are no ring outliers.

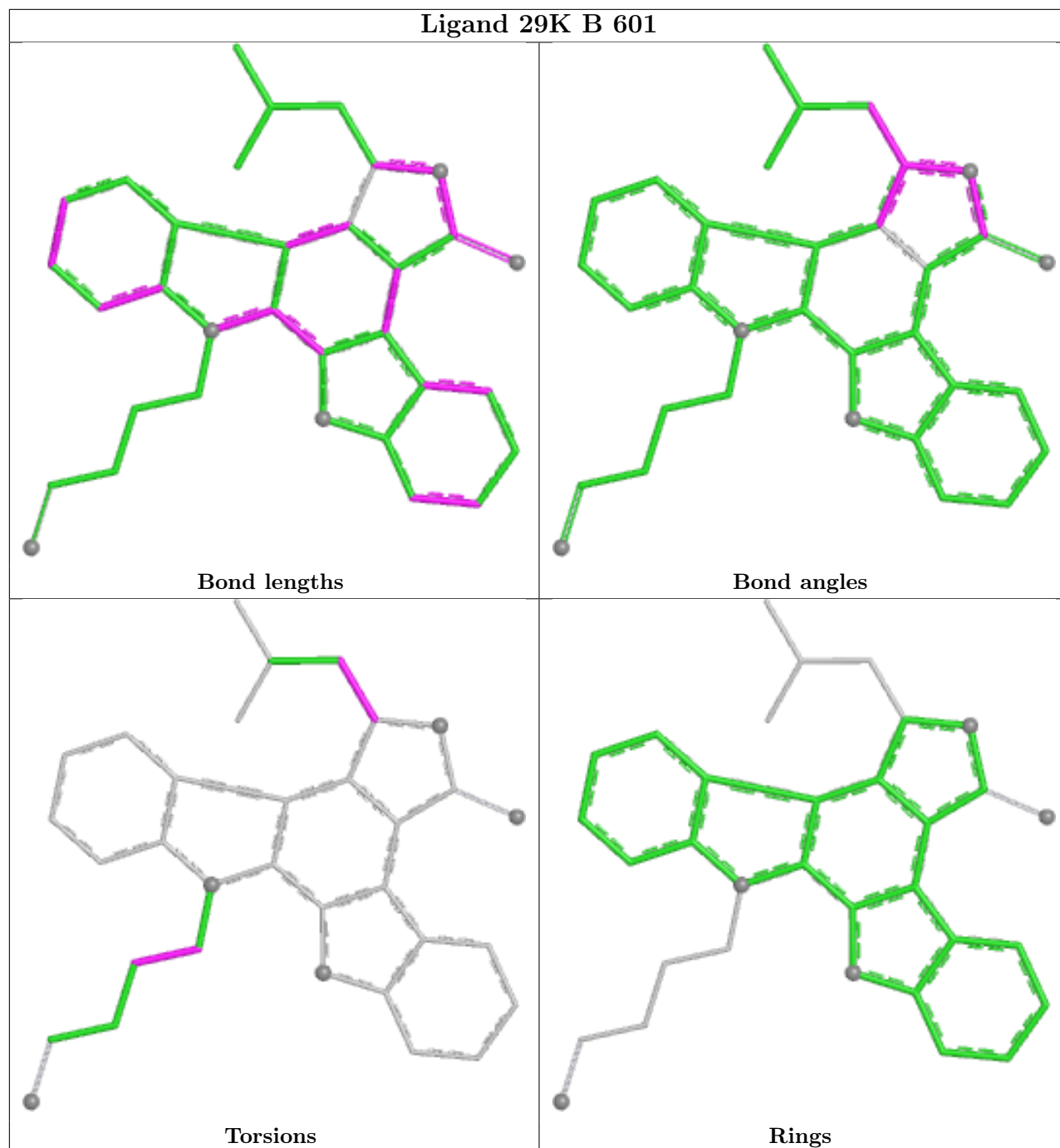
2 monomers are involved in 5 short contacts:

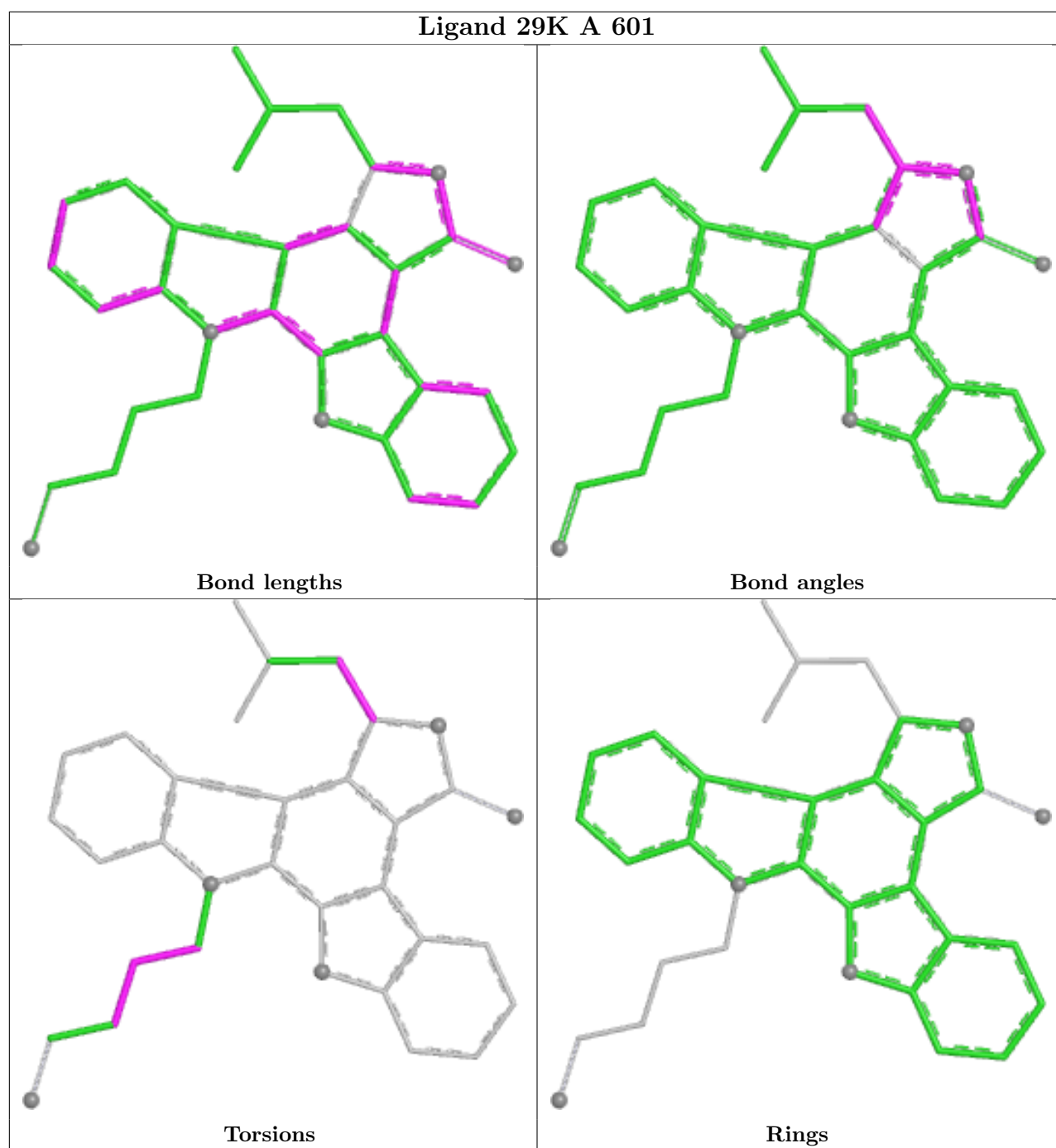
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	601	29K	3	0
2	A	601	29K	2	0

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 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 29K B 601





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, 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	267/278 (96%)	1.11	50 (18%) 3 3	23, 50, 96, 137	0
1	B	265/278 (95%)	1.02	31 (11%) 9 9	26, 51, 85, 109	0
All	All	532/556 (95%)	1.06	81 (15%) 5 5	23, 51, 92, 137	0

All (81) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	301	THR	4.9
1	B	424	PHE	4.8
1	A	407	LEU	4.5
1	A	306	ALA	4.3
1	A	411	ILE	3.9
1	A	278	PHE	3.9
1	B	533	LEU	3.8
1	B	277	CYS	3.8
1	A	304	PRO	3.7
1	B	299	PRO	3.7
1	A	299	PRO	3.7
1	A	424	PHE	3.6
1	A	289	THR	3.6
1	A	311	ALA	3.6
1	A	277	CYS	3.5
1	B	423	LYS	3.3
1	A	328	VAL	3.3
1	A	305	GLU	3.3
1	B	301	THR	3.3
1	A	263	PRO	3.2
1	B	410	LEU	3.2
1	A	267	LEU	3.2
1	A	335	TYR	3.1
1	A	329	VAL	3.1

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Mol	Chain	Res	Type	RSRZ
1	B	389	ALA	3.1
1	A	406	GLY	3.1
1	A	405	PHE	3.1
1	A	412	GLU	3.0
1	A	425	PRO	3.0
1	A	302	MET	3.0
1	B	278	PHE	3.0
1	A	310	GLU	2.8
1	B	263	PRO	2.8
1	A	307	PHE	2.8
1	A	330	SER	2.7
1	B	405	PHE	2.7
1	B	261	GLU	2.7
1	A	284	GLY	2.6
1	B	365	ASP	2.6
1	A	354	MET	2.6
1	B	257	LYS	2.5
1	B	385	ARG	2.5
1	B	469	ARG	2.5
1	A	271	VAL	2.5
1	A	290	THR	2.5
1	A	297	LEU	2.5
1	A	336	ILE	2.4
1	A	426	ILE	2.4
1	A	288	GLY	2.4
1	A	408	ALA	2.4
1	A	308	LEU	2.4
1	B	495	MET	2.4
1	A	471	VAL	2.4
1	B	353	GLU	2.3
1	A	473	ASP	2.3
1	A	259	ALA	2.3
1	A	436	TYR	2.3
1	B	310	GLU	2.3
1	A	469	ARG	2.3
1	B	411	ILE	2.2
1	B	501	LYS	2.2
1	A	285	THR	2.2
1	B	333	PRO	2.2
1	A	266	SER	2.2
1	A	279	GLY	2.2
1	B	276	GLY	2.2

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Mol	Chain	Res	Type	RSRZ
1	B	304	PRO	2.2
1	B	336	ILE	2.2
1	A	300	GLY	2.1
1	A	269	LEU	2.1
1	B	354	MET	2.1
1	A	468	ASN	2.1
1	B	328	VAL	2.1
1	A	388	ARG	2.1
1	B	409	ARG	2.1
1	B	484	PRO	2.1
1	A	331	GLU	2.0
1	A	355	GLY	2.0
1	A	270	GLU	2.0
1	B	502	ASP	2.0
1	B	303	SER	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](#)

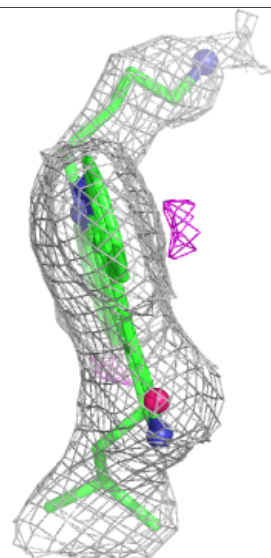
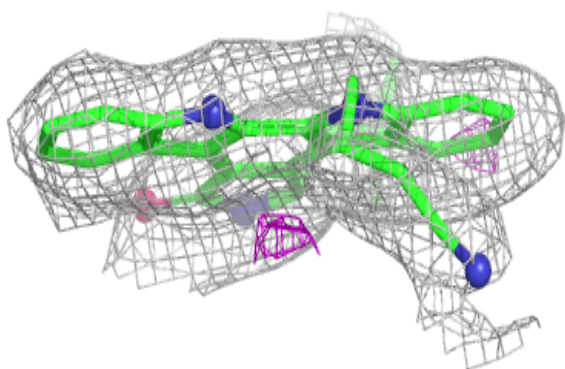
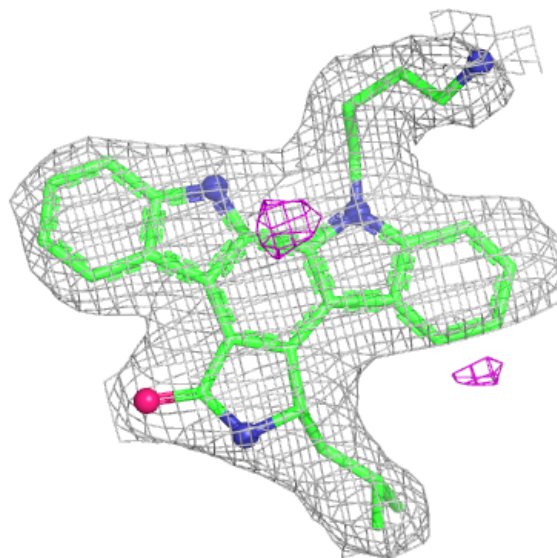
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
2	29K	A	601	33/33	0.91	0.14	31,49,59,69	0
2	29K	B	601	33/33	0.92	0.12	18,33,52,63	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.

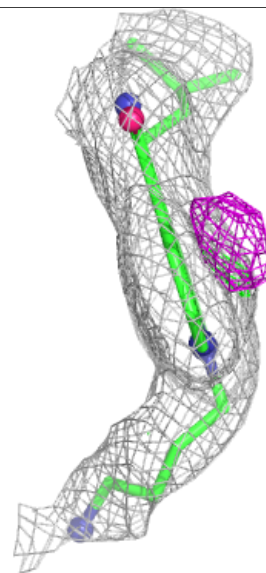
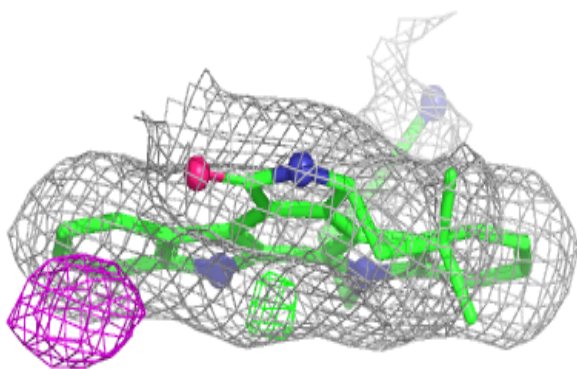
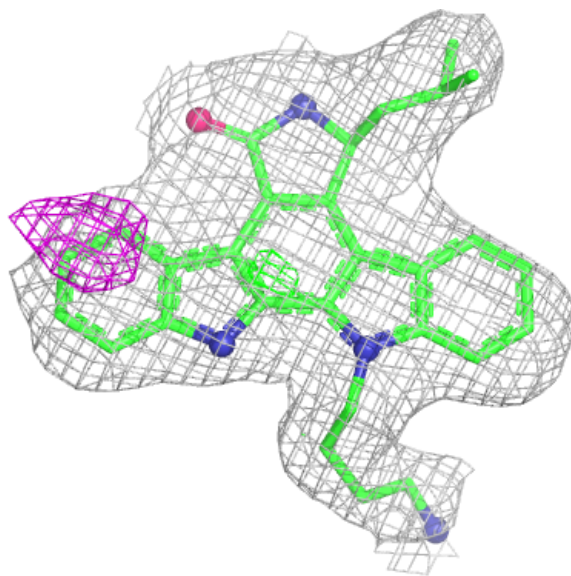
Electron density around 29K A 601:

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



Electron density around 29K B 601:

$2mF_o-DF_c$ (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.