



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 28, 2026 – 09:16 PM UTC

PDB ID : 2I1M / pdb_00002i1m
Title : cFMS tyrosine kinase (tie2 KID) in complex with an arylamide inhibitor
Authors : Schubert, C.; Schalk-Hihi, C.
Deposited on : 2006-08-14
Resolution : 1.80 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

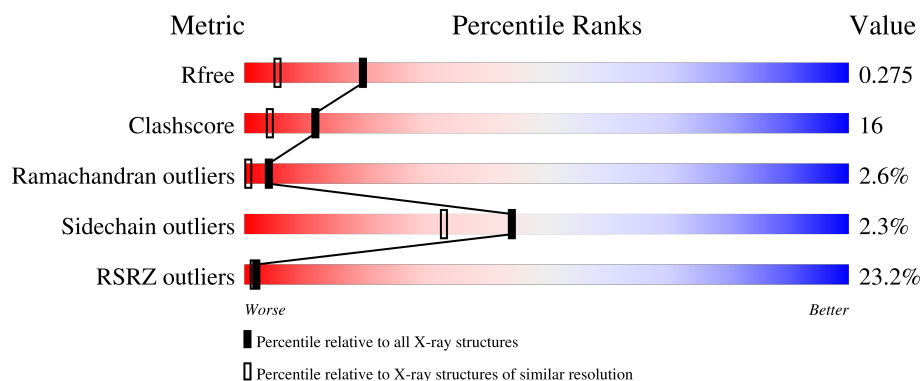
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.80 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	7662 (1.80-1.80)
Clashscore	190562	8479 (1.80-1.80)
Ramachandran outliers	187476	8391 (1.80-1.80)
Sidechain outliers	187428	8390 (1.80-1.80)
RSRZ outliers	180081	7663 (1.80-1.80)

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	333	

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 2670 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.

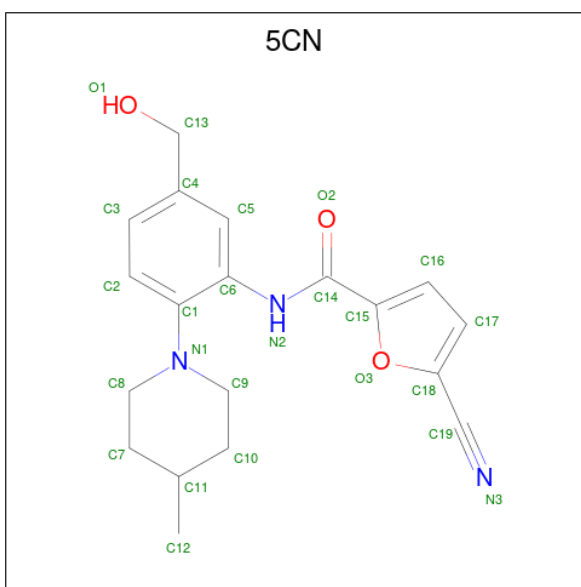
- Molecule 1 is a protein called Macrophage colony-stimulating factor 1 receptor.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	311	Total	C	N	O	S	0	0	0
			2469	1580	425	449	15			

There are 22 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	535	GLY	-	expression tag	UNP P07333
A	536	VAL	-	expression tag	UNP P07333
A	537	ASP	-	expression tag	UNP P07333
A	679	SER	-	SEE REMARK 999	UNP P07333
A	680	ARG	-	SEE REMARK 999	UNP P07333
A	681	VAL	-	SEE REMARK 999	UNP P07333
A	682	LEU	-	SEE REMARK 999	UNP P07333
A	683	GLU	-	SEE REMARK 999	UNP P07333
A	684	THR	-	SEE REMARK 999	UNP P07333
A	685	ASP	-	SEE REMARK 999	UNP P07333
A	686	PRO	-	SEE REMARK 999	UNP P07333
A	687	ALA	-	SEE REMARK 999	UNP P07333
A	688	PHE	-	SEE REMARK 999	UNP P07333
A	689	ALA	-	SEE REMARK 999	UNP P07333
A	690	ILE	-	SEE REMARK 999	UNP P07333
A	691	ALA	-	SEE REMARK 999	UNP P07333
A	692	ASN	-	SEE REMARK 999	UNP P07333
A	693	SER	-	SEE REMARK 999	UNP P07333
A	694	THR	-	SEE REMARK 999	UNP P07333
A	697	ALA	-	SEE REMARK 999	UNP P07333
A	698	SER	-	SEE REMARK 999	UNP P07333
A	699	THR	-	SEE REMARK 999	UNP P07333

- Molecule 2 is 5-CYANO-FURAN-2-CARBOXYLIC ACID [5-HYDROXYMETHYL-2-(4-METHYL-PIPERIDIN-1-YL)-PHENYL]-AMIDE (CCD ID: 5CN) (formula: C₁₉H₂₁N₃O₃).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	C	N	O	0	0
			25	19	3	3		

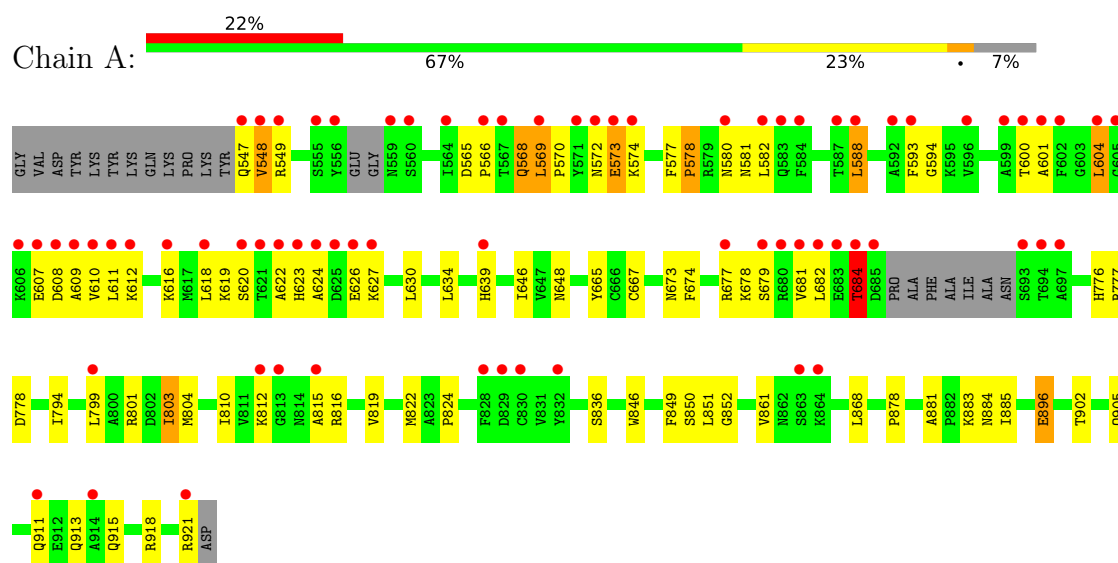
- Molecule 3 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	176	Total O 176 176	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: Macrophage colony-stimulating factor 1 receptor



4 Data and refinement statistics

Property	Value	Source
Space group	H 3	Depositor
Cell constants a, b, c, α , β , γ	80.44Å 80.44Å 143.76Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	62.69 – 1.80 62.69 – 1.80	Depositor EDS
% Data completeness (in resolution range)	94.6 (62.69-1.80) 94.6 (62.69-1.80)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.05	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.29 (at 1.80Å)	Xtriage
Refinement program	CNX 2005	Depositor
R, R_{free}	0.237 , 0.282 0.232 , 0.275	Depositor DCC
R_{free} test set	1510 reflections (4.95%)	wwPDB-VP
Wilson B-factor (Å ²)	21.8	Xtriage
Anisotropy	0.089	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.37 , 52.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	0.031 for h,-h-k,-l	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	2670	wwPDB-VP
Average B, all atoms (Å ²)	36.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.12% 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: 5CN

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	0.35	0/2525	0.91	14/3416 (0.4%)

There are no bond length outliers.

All (14) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	819	VAL	N-CA-C	7.47	119.13	110.62
1	A	803	ILE	N-CA-C	7.15	117.91	110.62
1	A	667	CYS	N-CA-C	6.64	120.25	111.75
1	A	568	GLN	N-CA-C	-6.29	102.67	110.41
1	A	850	SER	N-CA-C	-6.02	104.45	112.94
1	A	836	SER	N-CA-C	-5.78	105.06	111.36
1	A	822	MET	N-CA-C	5.61	119.38	109.96
1	A	565	ASP	CA-C-N	5.51	125.86	119.47
1	A	565	ASP	C-N-CA	5.51	125.86	119.47
1	A	852	GLY	N-CA-C	5.41	123.33	115.32
1	A	648	ASN	N-CA-C	5.40	117.69	110.35
1	A	896	GLU	CA-C-N	5.39	125.46	119.32
1	A	896	GLU	C-N-CA	5.39	125.46	119.32
1	A	815	ALA	N-CA-C	5.03	115.17	108.38

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	2469	0	2450	79	0
2	A	25	0	21	0	0
3	A	176	0	0	8	0
All	All	2670	0	2471	79	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 16.

All (79) 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:616:LYS:NZ	1:A:630:LEU:HD13	2.02	0.75
1:A:547:GLN:HG3	1:A:548:VAL:H	1.53	0.73
1:A:548:VAL:HG22	1:A:778:ASP:HB2	1.71	0.72
1:A:616:LYS:HZ2	1:A:630:LEU:HD13	1.55	0.71
1:A:572:ASN:C	1:A:574:LYS:H	2.01	0.69
1:A:846:TRP:CD1	1:A:878:PRO:HG3	2.27	0.69
1:A:616:LYS:HG2	1:A:799:LEU:HD12	1.75	0.68
1:A:918:ARG:O	1:A:921:ARG:HG3	1.94	0.67
1:A:623:HIS:H	1:A:626:GLU:CG	2.07	0.66
1:A:677:ARG:O	1:A:681:VAL:HG23	1.96	0.65
1:A:896:GLU:HB3	3:A:155:HOH:O	1.96	0.65
1:A:572:ASN:O	1:A:574:LYS:N	2.34	0.61
1:A:911:GLN:HG3	1:A:915:GLN:HE21	1.65	0.60
1:A:547:GLN:CG	1:A:548:VAL:H	2.15	0.59
1:A:623:HIS:H	1:A:626:GLU:HG2	1.67	0.58
1:A:616:LYS:HZ3	1:A:799:LEU:CG	2.16	0.58
1:A:547:GLN:HG3	1:A:548:VAL:N	2.19	0.57
1:A:600:THR:HG22	1:A:610:VAL:HG12	1.87	0.56
1:A:616:LYS:CG	1:A:799:LEU:HD12	2.35	0.56
1:A:868:LEU:HD23	3:A:106:HOH:O	2.05	0.56
1:A:601:ALA:CB	1:A:604:LEU:HD12	2.35	0.56
1:A:883:LYS:O	1:A:883:LYS:HD3	2.06	0.56
1:A:682:LEU:C	1:A:684:THR:H	2.14	0.56
1:A:673:ASN:O	1:A:677:ARG:HG3	2.05	0.56
1:A:572:ASN:C	1:A:574:LYS:N	2.64	0.55
1:A:622:ALA:HA	1:A:626:GLU:HG3	1.87	0.55
1:A:607:GLU:C	1:A:609:ALA:H	2.14	0.54
1:A:618:LEU:HD11	1:A:627:LYS:HA	1.91	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:884:ASN:HD22	1:A:913:GLN:HE22	1.58	0.52
1:A:593:PHE:HB2	1:A:799:LEU:CD2	2.40	0.52
1:A:568:GLN:O	1:A:569:LEU:HB2	2.10	0.51
1:A:580:ASN:C	1:A:582:LEU:H	2.18	0.51
1:A:616:LYS:HD3	3:A:26:HOH:O	2.10	0.51
1:A:573:GLU:OE2	3:A:179:HOH:O	2.18	0.50
1:A:824:PRO:HB2	3:A:55:HOH:O	2.13	0.49
1:A:902:THR:H	1:A:905:GLN:HE21	1.60	0.49
1:A:548:VAL:O	1:A:548:VAL:HG13	2.13	0.48
1:A:577:PHE:CD1	1:A:578:PRO:HD2	2.47	0.48
1:A:674:PHE:O	1:A:678:LYS:HG2	2.13	0.48
1:A:594:GLY:HA2	1:A:619:LYS:HG3	1.96	0.48
1:A:547:GLN:CG	1:A:548:VAL:N	2.77	0.48
1:A:639:HIS:HB2	3:A:31:HOH:O	2.14	0.47
1:A:574:LYS:N	1:A:574:LYS:HD2	2.30	0.47
1:A:616:LYS:HZ3	1:A:799:LEU:HG	1.78	0.47
1:A:679:SER:HB3	1:A:851:LEU:HB3	1.95	0.47
1:A:548:VAL:CG2	1:A:778:ASP:HB2	2.42	0.46
1:A:812:LYS:O	1:A:812:LYS:HG2	2.14	0.46
1:A:902:THR:H	1:A:905:GLN:NE2	2.13	0.46
1:A:549:ARG:HG2	3:A:141:HOH:O	2.15	0.46
1:A:616:LYS:HZ2	1:A:630:LEU:CD1	2.26	0.45
1:A:799:LEU:C	1:A:799:LEU:HD13	2.42	0.45
1:A:588:LEU:HD21	1:A:665:TYR:CE1	2.51	0.45
1:A:623:HIS:H	1:A:626:GLU:HG3	1.78	0.45
1:A:616:LYS:HZ3	1:A:799:LEU:CB	2.30	0.45
1:A:594:GLY:HA3	1:A:799:LEU:HD11	1.99	0.45
1:A:572:ASN:HB3	1:A:574:LYS:HD3	1.99	0.44
1:A:801:ARG:HG3	1:A:803:ILE:HG13	1.99	0.44
1:A:682:LEU:C	1:A:684:THR:N	2.74	0.44
1:A:679:SER:O	1:A:682:LEU:HB2	2.17	0.44
1:A:607:GLU:O	1:A:609:ALA:N	2.49	0.43
1:A:616:LYS:HZ1	1:A:630:LEU:HD13	1.80	0.43
1:A:568:GLN:HB3	1:A:569:LEU:HD12	2.00	0.43
1:A:849:PHE:HB3	1:A:881:ALA:HB2	2.00	0.42
1:A:646:ILE:HD13	1:A:794:ILE:HG13	2.01	0.42
1:A:547:GLN:HE21	1:A:548:VAL:H	1.68	0.42
1:A:911:GLN:NE2	1:A:911:GLN:HA	2.35	0.42
1:A:623:HIS:ND1	1:A:624:ALA:N	2.66	0.42
1:A:776:HIS:O	1:A:777:ARG:HB2	2.20	0.42
1:A:804:MET:HE1	1:A:816:ARG:NH1	2.34	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:566:PRO:HG3	1:A:639:HIS:CD2	2.55	0.41
1:A:568:GLN:C	1:A:569:LEU:HD12	2.45	0.41
1:A:799:LEU:HD13	1:A:799:LEU:O	2.20	0.41
1:A:849:PHE:CE2	1:A:885:ILE:HG21	2.56	0.41
1:A:549:ARG:HG2	1:A:549:ARG:HH11	1.85	0.41
1:A:588:LEU:HD21	1:A:665:TYR:CD1	2.56	0.41
1:A:600:THR:CG2	1:A:610:VAL:HG12	2.51	0.41
1:A:620:SER:HA	3:A:97:HOH:O	2.19	0.41
1:A:810:ILE:HG13	1:A:861:VAL:HG11	2.03	0.41
1:A:884:ASN:ND2	1:A:913:GLN:HE22	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	305/333 (92%)	285 (93%)	12 (4%)	8 (3%)	4 0

All (8) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	684	THR
1	A	573	GLU
1	A	608	ASP
1	A	570	PRO
1	A	581	ASN
1	A	548	VAL
1	A	569	LEU
1	A	578	PRO

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	265/282 (94%)	259 (98%)	6 (2%)	44 33

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

Mol	Chain	Res	Type
1	A	588	LEU
1	A	604	LEU
1	A	611	LEU
1	A	612	LYS
1	A	634	LEU
1	A	684	THR

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

Mol	Chain	Res	Type
1	A	547	GLN
1	A	874	GLN
1	A	884	ASN
1	A	905	GLN
1	A	911	GLN
1	A	915	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](#)

1 ligand is 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	5CN	A	1000	-	27,27,27	1.61	8 (29%)	35,37,37	1.37	4 (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
2	5CN	A	1000	-	-	2/14/26/26	0/3/3/3

All (8) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	1000	5CN	C6-C1	3.68	1.44	1.40
2	A	1000	5CN	C2-C1	3.18	1.44	1.39
2	A	1000	5CN	C5-C6	3.01	1.44	1.39
2	A	1000	5CN	C5-C4	2.76	1.44	1.39
2	A	1000	5CN	C17-C18	2.22	1.37	1.35
2	A	1000	5CN	C3-C2	2.17	1.42	1.38
2	A	1000	5CN	C3-C4	2.05	1.43	1.38
2	A	1000	5CN	C8-N1	2.01	1.50	1.46

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	1000	5CN	C9-N1-C8	4.97	122.74	111.57

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	1000	5CN	C2-C1-N1	-2.68	118.22	122.42
2	A	1000	5CN	C18-O3-C15	2.61	107.03	105.56
2	A	1000	5CN	C6-N2-C14	2.24	133.10	126.84

There are no chirality outliers.

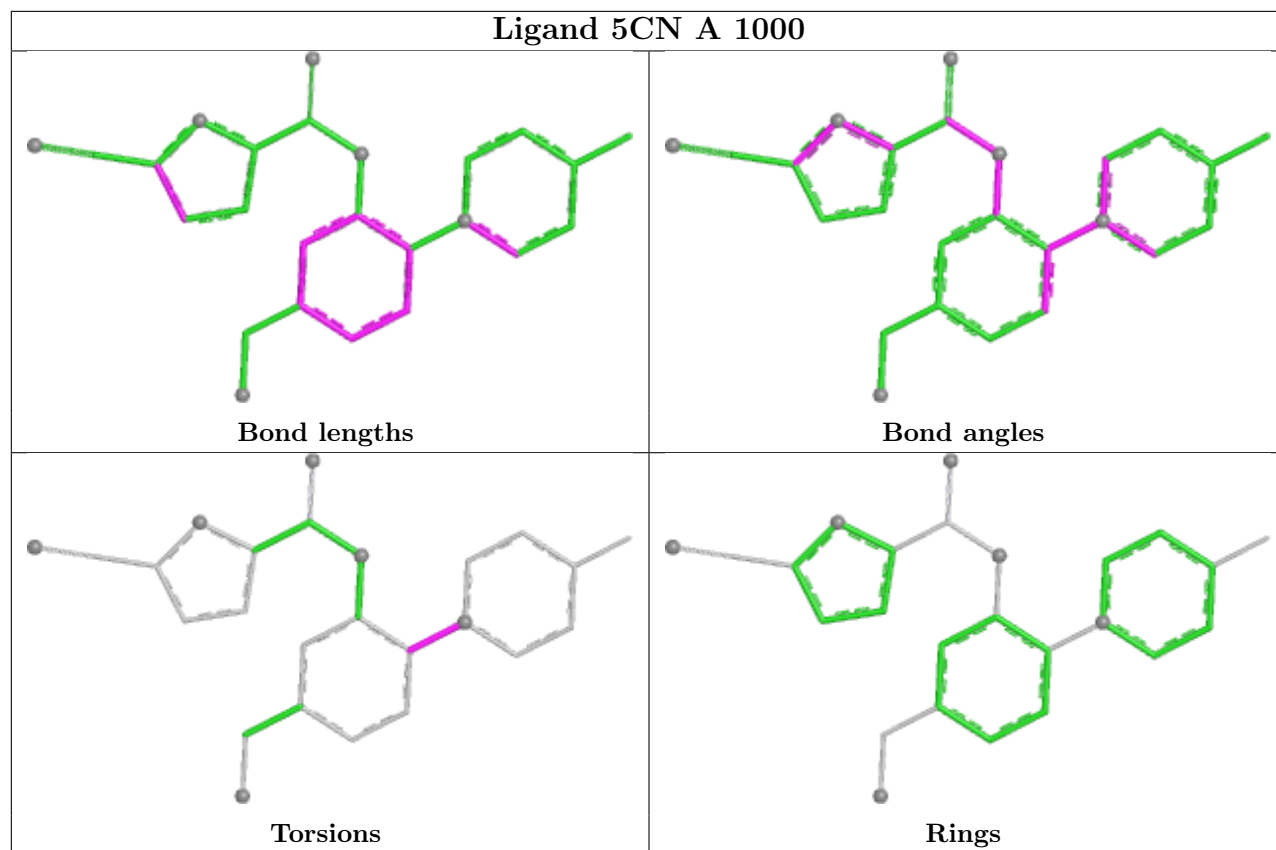
All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	1000	5CN	C2-C1-N1-C9
2	A	1000	5CN	C6-C1-N1-C9

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.



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	311/333 (93%)	1.10	72 (23%) 2 1	15, 31, 66, 87	0

All (72) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	569	LEU	6.1
1	A	556	TYR	5.4
1	A	685	ASP	5.3
1	A	572	ASN	5.2
1	A	609	ALA	4.9
1	A	621	THR	4.9
1	A	582	LEU	4.8
1	A	684	THR	4.6
1	A	593	PHE	4.4
1	A	611	LEU	4.3
1	A	682	LEU	4.2
1	A	799	LEU	4.2
1	A	610	VAL	4.1
1	A	602	PHE	3.7
1	A	622	ALA	3.5
1	A	548	VAL	3.5
1	A	584	PHE	3.4
1	A	588	LEU	3.4
1	A	604	LEU	3.4
1	A	832	TYR	3.3
1	A	680	ARG	3.3
1	A	606	LYS	3.2
1	A	693	SER	3.2
1	A	624	ALA	3.2
1	A	914	ALA	3.2
1	A	683	GLU	3.2
1	A	694	THR	3.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	A	681	VAL	3.1
1	A	555	SER	3.0
1	A	697	ALA	2.9
1	A	620	SER	2.9
1	A	567	THR	2.9
1	A	573	GLU	2.9
1	A	607	GLU	2.8
1	A	815	ALA	2.8
1	A	587	THR	2.8
1	A	813	GLY	2.7
1	A	911	GLN	2.7
1	A	921	ARG	2.7
1	A	571	TYR	2.7
1	A	605	GLY	2.7
1	A	592	ALA	2.7
1	A	623	HIS	2.7
1	A	583	GLN	2.6
1	A	600	THR	2.6
1	A	549	ARG	2.6
1	A	559	ASN	2.6
1	A	566	PRO	2.5
1	A	626	GLU	2.5
1	A	608	ASP	2.5
1	A	564	ILE	2.5
1	A	547	GLN	2.4
1	A	612	LYS	2.4
1	A	625	ASP	2.4
1	A	639	HIS	2.3
1	A	677	ARG	2.3
1	A	580	ASN	2.3
1	A	596	VAL	2.3
1	A	828	PHE	2.2
1	A	679	SER	2.2
1	A	627	LYS	2.2
1	A	830	CYS	2.2
1	A	574	LYS	2.2
1	A	864	LYS	2.2
1	A	560	SER	2.2
1	A	601	ALA	2.2
1	A	863	SER	2.1
1	A	616	LYS	2.1
1	A	829	ASP	2.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	A	812	LYS	2.0
1	A	618	LEU	2.0
1	A	599	ALA	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](#)

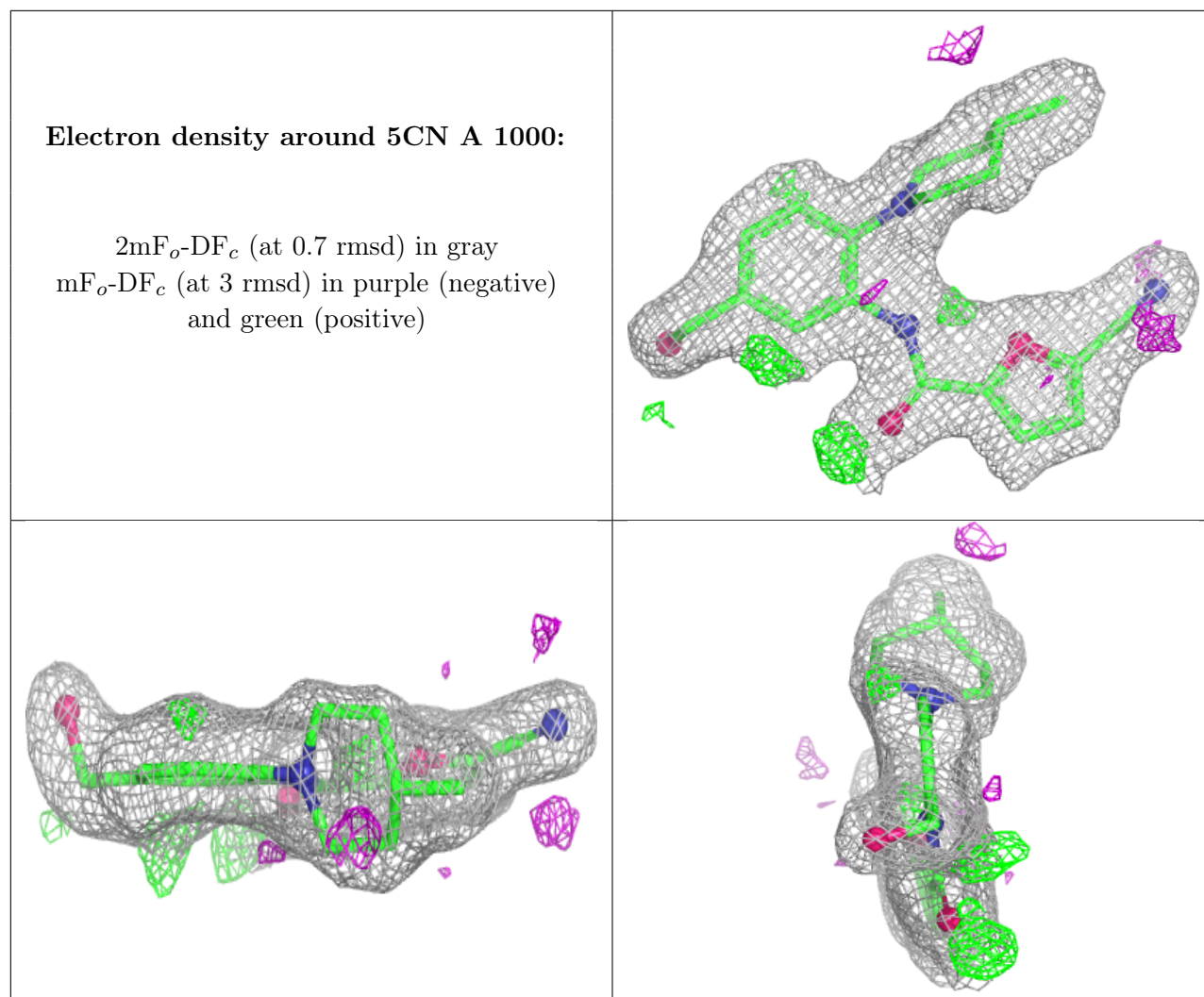
There are no oligosaccharides in this entry.

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	5CN	A	1000	25/25	0.90	0.10	18,30,36,41	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.



6.5 Other polymers ⓘ

There are no such residues in this entry.