



Full wwPDB X-ray Structure Validation Report ⓘ

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PDB ID : 1SQO / pdb_00001sqo
Title : Substituted 2-Naphthamidine Inhibitors of Urokinase
Authors : Wendt, M.D.; Geyer, A.; McClellan, W.J.; Rockway, T.W.; Weitzberg, M.;
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V.L.
Deposited on : 2004-03-19
Resolution : 1.84 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

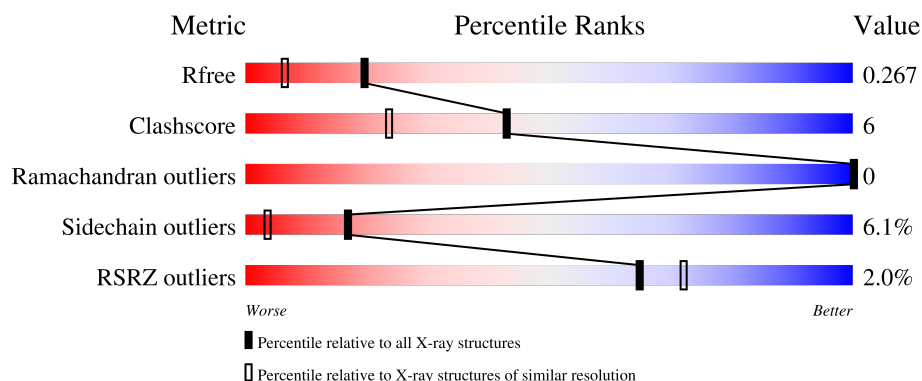
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

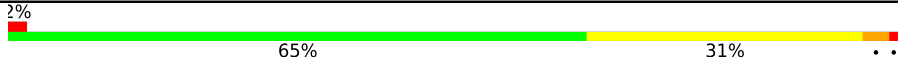
The reported resolution of this entry is 1.84 Å.

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	1296 (1.84-1.84)
Clashscore	190562	1329 (1.84-1.84)
Ramachandran outliers	187476	1318 (1.84-1.84)
Sidechain outliers	187428	1318 (1.84-1.84)
RSRZ outliers	180081	1296 (1.84-1.84)

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	245	

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 2068 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 Urokinase-type plasminogen activator.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	245	1934	1219	338	361	16	0	0	0

There is a discrepancy between the modelled and reference sequences:

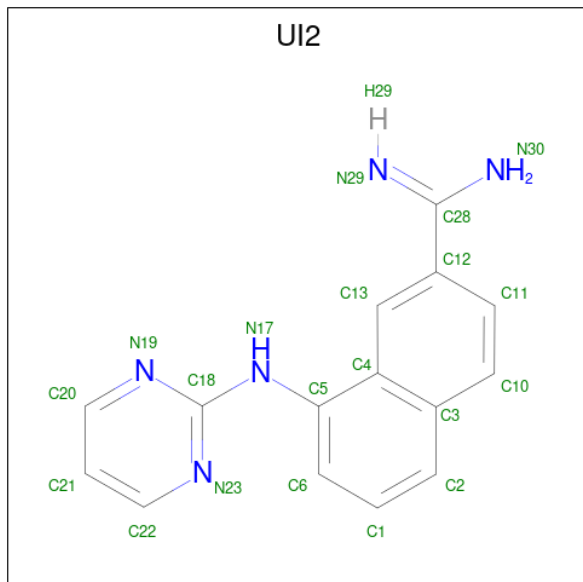
Chain	Residue	Modelled	Actual	Comment	Reference
A	156	GLN	ASN	conflict	UNP P00749

- Molecule 2 is SULFATE ION (CCD ID: SO4) (formula: O₄S).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	O	S		
2	A	1	5	4	1	0	0
2	A	1	5	4	1	0	0
2	A	1	5	4	1	0	0

- Molecule 3 is 8-(PYRIMIDIN-2-YLAMINO)NAPHTHALENE-2-CARBOXIMIDAMIDE (CCD ID: UI2) (formula: C₁₅H₁₃N₅).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	C	N	0	0
			20	15	5		

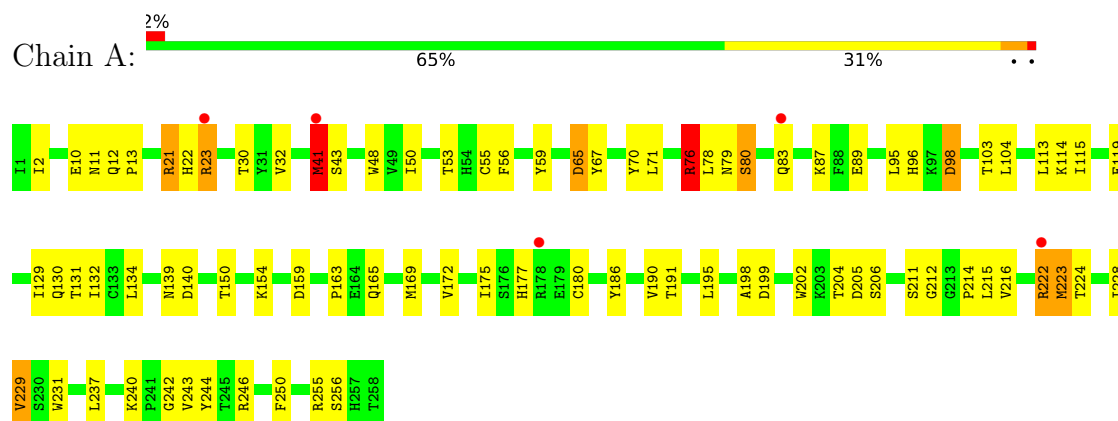
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	99	Total	O	0	0
			99	99		

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: Urokinase-type plasminogen activator



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	55.16Å 53.00Å 82.30Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	10.00 – 1.84 10.00 – 1.84	Depositor EDS
% Data completeness (in resolution range)	78.4 (10.00-1.84) 90.5 (10.00-1.84)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.93 (at 1.84Å)	Xtriage
Refinement program	X-PLOR 98.0	Depositor
R, R_{free}	0.222 , 0.284 0.207 , 0.267	Depositor DCC
R_{free} test set	1968 reflections (9.84%)	wwPDB-VP
Wilson B-factor (Å ²)	16.3	Xtriage
Anisotropy	0.472	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.47 , 52.1	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	0.024 for k,h,-l	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	2068	wwPDB-VP
Average B, all atoms (Å ²)	13.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 7.89% 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: SO4, UI2

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	1.53	19/1983 (1.0%)	1.74	60/2685 (2.2%)

All (19) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	186	TYR	N-CA	7.39	1.56	1.45
1	A	163	PRO	N-CA	-6.82	1.38	1.47
1	A	56	PHE	N-CA	6.79	1.54	1.45
1	A	89	GLU	N-CA	-6.57	1.37	1.45
1	A	59	TYR	N-CA	6.50	1.53	1.46
1	A	211	SER	N-CA	6.38	1.53	1.46
1	A	204	THR	C-N	6.29	1.42	1.33
1	A	202	TRP	N-CA	6.28	1.56	1.46
1	A	70	TYR	C-N	5.82	1.42	1.33
1	A	172	VAL	N-CA	5.72	1.52	1.46
1	A	129	ILE	C-N	5.66	1.40	1.33
1	A	131	THR	N-CA	5.50	1.52	1.45
1	A	175	ILE	N-CA	5.44	1.52	1.46
1	A	190	VAL	C-N	5.44	1.40	1.33
1	A	23	ARG	NE-CZ	5.34	1.39	1.33
1	A	115	ILE	N-CA	5.20	1.54	1.45
1	A	130	GLN	N-CA	5.17	1.52	1.45
1	A	78	LEU	N-CA	-5.14	1.39	1.46
1	A	11	ASN	N-CA	5.06	1.52	1.46

All (60) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	65	ASP	CA-CB-CG	9.32	121.92	112.60
1	A	76	ARG	CG-CD-NE	8.15	129.94	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	79	ASN	CA-C-O	8.06	130.81	121.78
1	A	228	ILE	CA-C-O	-7.88	112.11	120.39
1	A	2	ILE	CA-C-O	-7.50	112.24	120.71
1	A	104	LEU	O-C-N	7.49	131.30	122.09
1	A	12	GLN	N-CA-CB	7.28	120.25	110.79
1	A	175	ILE	O-C-N	-7.28	115.32	123.18
1	A	186	TYR	O-C-N	-7.28	113.62	122.20
1	A	186	TYR	CA-C-O	7.18	127.66	119.18
1	A	80	SER	CA-CB-OG	7.17	125.44	111.10
1	A	2	ILE	O-C-N	7.16	131.12	122.95
1	A	242	GLY	N-CA-C	-6.82	102.82	112.37
1	A	53	THR	O-C-N	-6.79	114.46	122.20
1	A	41	MET	CB-CG-SD	-6.35	93.64	112.70
1	A	206	SER	N-CA-C	-6.29	102.05	110.55
1	A	67	TYR	N-CA-C	6.24	120.25	110.32
1	A	139	ASN	CA-CB-CG	6.20	118.80	112.60
1	A	211	SER	CA-C-O	-6.19	114.76	121.44
1	A	205	ASP	O-C-N	6.18	130.81	122.59
1	A	199	ASP	CA-CB-CG	6.16	118.76	112.60
1	A	113	LEU	CA-C-O	-6.14	113.96	120.40
1	A	250	PHE	N-CA-C	6.09	120.33	113.02
1	A	243	VAL	O-C-N	6.07	129.74	123.18
1	A	255	ARG	CA-C-O	6.05	126.84	120.42
1	A	13	PRO	N-CA-C	6.05	121.47	114.03
1	A	95	LEU	O-C-N	-6.04	115.54	123.21
1	A	190	VAL	CB-CA-C	5.93	118.27	110.91
1	A	223	MET	O-C-N	-5.85	115.73	122.93
1	A	43	SER	N-CA-CB	5.84	117.23	111.10
1	A	119	GLU	CA-C-O	5.78	126.27	119.28
1	A	159	ASP	CA-CB-CG	5.77	118.37	112.60
1	A	206	SER	CA-CB-OG	5.76	122.62	111.10
1	A	87	LYS	N-CA-CB	-5.75	101.43	110.69
1	A	231	TRP	N-CA-C	5.71	117.47	108.96
1	A	79	ASN	O-C-N	-5.70	114.22	121.92
1	A	240	LYS	N-CA-CB	-5.69	103.18	111.20
1	A	215	LEU	N-CA-C	-5.66	97.97	107.99
1	A	132	ILE	CA-C-O	5.66	126.36	120.36
1	A	202	TRP	CA-C-O	5.64	128.12	121.08
1	A	246	ARG	CA-C-O	5.62	126.77	120.92
1	A	83	GLN	CA-C-O	-5.58	114.88	120.96
1	A	71	LEU	N-CA-C	-5.57	100.82	109.72
1	A	191	THR	CA-C-O	-5.56	114.67	121.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	80	SER	N-CA-CB	5.55	120.82	110.99
1	A	55	CYS	O-C-N	5.50	130.05	122.46
1	A	229	VAL	O-C-N	-5.45	117.11	122.67
1	A	211	SER	O-C-N	5.42	129.76	122.82
1	A	98	ASP	CA-CB-CG	-5.40	107.20	112.60
1	A	154	LYS	O-C-N	5.35	129.39	122.81
1	A	212	GLY	O-C-N	5.35	128.94	122.25
1	A	159	ASP	O-C-N	-5.16	116.97	122.85
1	A	32	VAL	CB-CA-C	-5.15	107.33	111.71
1	A	67	TYR	O-C-N	5.13	128.81	123.06
1	A	48	TRP	N-CA-C	5.13	117.43	108.76
1	A	114	LYS	N-CA-C	-5.09	101.46	109.25
1	A	198	ALA	O-C-N	5.06	128.35	123.29
1	A	140	ASP	CA-CB-CG	-5.04	107.56	112.60
1	A	202	TRP	O-C-N	-5.01	114.16	122.23
1	A	132	ILE	O-C-N	-5.01	117.79	123.20

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	1934	0	1880	24	0
2	A	15	0	0	0	0
3	A	20	0	12	0	0
4	A	99	0	0	2	0
All	All	2068	0	1892	24	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 6.

All (24) 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:41:MET:HE3	1:A:134:LEU:HD21	1.60	0.83
1:A:41:MET:CE	1:A:134:LEU:HD21	2.11	0.81
1:A:96:HIS:HD2	1:A:98:ASP:H	1.35	0.75
1:A:76:ARG:HH11	1:A:165:GLN:HE21	1.41	0.67
1:A:22:HIS:HE1	1:A:30:THR:OG1	1.82	0.61
1:A:76:ARG:HH11	1:A:165:GLN:NE2	1.99	0.60
1:A:10:GLU:HB2	4:A:1022:HOH:O	2.03	0.59
1:A:41:MET:HE2	1:A:50:ILE:HG21	1.86	0.56
1:A:41:MET:CE	1:A:50:ILE:HG21	2.41	0.51
1:A:169:MET:C	1:A:169:MET:SD	2.94	0.51
1:A:76:ARG:HH11	1:A:76:ARG:HG2	1.76	0.50
1:A:41:MET:HE1	1:A:134:LEU:HD21	1.91	0.50
1:A:76:ARG:NH1	1:A:165:GLN:HE21	2.09	0.49
1:A:222:ARG:HG3	1:A:222:ARG:NH1	2.27	0.49
1:A:222:ARG:HG3	1:A:222:ARG:HH11	1.78	0.49
1:A:21:ARG:HG2	1:A:65:ASP:O	2.14	0.47
1:A:23:ARG:CZ	1:A:23:ARG:HB2	2.43	0.47
1:A:41:MET:HE2	1:A:50:ILE:CG2	2.46	0.45
1:A:229:VAL:HG22	1:A:244:TYR:CE1	2.53	0.44
1:A:229:VAL:HG22	1:A:244:TYR:HE1	1.84	0.43
1:A:222:ARG:HH11	1:A:222:ARG:CG	2.31	0.42
1:A:177:HIS:HE1	4:A:1085:HOH:O	2.04	0.41
1:A:76:ARG:NH1	1:A:165:GLN:NE2	2.67	0.41
1:A:214:PRO:HB2	1:A:216:VAL:HG23	2.03	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	243/245 (99%)	233 (96%)	10 (4%)	0	100	100

There are no Ramachandran outliers to report.

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	213/214 (100%)	200 (94%)	13 (6%)	17 3

All (13) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	21	ARG
1	A	41	MET
1	A	76	ARG
1	A	80	SER
1	A	103	THR
1	A	150	THR
1	A	180	CYS
1	A	195	LEU
1	A	222	ARG
1	A	223	MET
1	A	224	THR
1	A	237	LEU
1	A	256	SER

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (9) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	11	ASN
1	A	22	HIS
1	A	96	HIS
1	A	106	HIS
1	A	130	GLN
1	A	165	GLN
1	A	177	HIS
1	A	181	GLN
1	A	257	HIS

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](#)

4 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	SO4	A	302	-	4,4,4	0.36	0	6,6,6	0.98	0
2	SO4	A	303	-	4,4,4	0.73	0	6,6,6	0.57	0
3	UI2	A	1001	-	22,22,22	2.21	11 (50%)	27,30,30	4.13	13 (48%)
2	SO4	A	301	-	4,4,4	0.60	0	6,6,6	0.80	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	UI2	A	1001	-	-	0/8/8/8	0/3/3/3

All (11) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	1001	UI2	C12-C28	-3.97	1.39	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	1001	UI2	C18-N23	3.82	1.40	1.34
3	A	1001	UI2	C1-C6	2.94	1.43	1.38
3	A	1001	UI2	C21-C22	2.87	1.45	1.37
3	A	1001	UI2	C21-C20	2.80	1.45	1.37
3	A	1001	UI2	C13-C4	2.80	1.47	1.42
3	A	1001	UI2	C10-C11	2.79	1.42	1.36
3	A	1001	UI2	C11-C12	2.66	1.43	1.39
3	A	1001	UI2	C6-C5	2.37	1.43	1.38
3	A	1001	UI2	C5-N17	2.14	1.44	1.38
3	A	1001	UI2	C18-N19	2.07	1.37	1.34

All (13) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	1001	UI2	C20-N19-C18	12.12	125.54	115.42
3	A	1001	UI2	N23-C18-N19	-10.27	116.02	126.43
3	A	1001	UI2	C13-C4-C5	-6.42	119.01	123.67
3	A	1001	UI2	C22-C21-C20	-5.22	109.86	116.63
3	A	1001	UI2	C22-N23-C18	5.16	119.73	115.42
3	A	1001	UI2	C12-C28-N30	4.47	124.80	118.01
3	A	1001	UI2	C5-C4-C3	4.01	123.46	118.32
3	A	1001	UI2	C10-C3-C4	3.61	123.79	119.12
3	A	1001	UI2	C21-C22-N23	2.98	128.14	123.42
3	A	1001	UI2	C13-C12-C28	-2.97	115.07	120.25
3	A	1001	UI2	C4-C5-N17	2.94	123.91	118.83
3	A	1001	UI2	C11-C10-C3	-2.73	116.77	120.84
3	A	1001	UI2	N17-C18-N19	2.67	123.85	116.29

There are no chirality outliers.

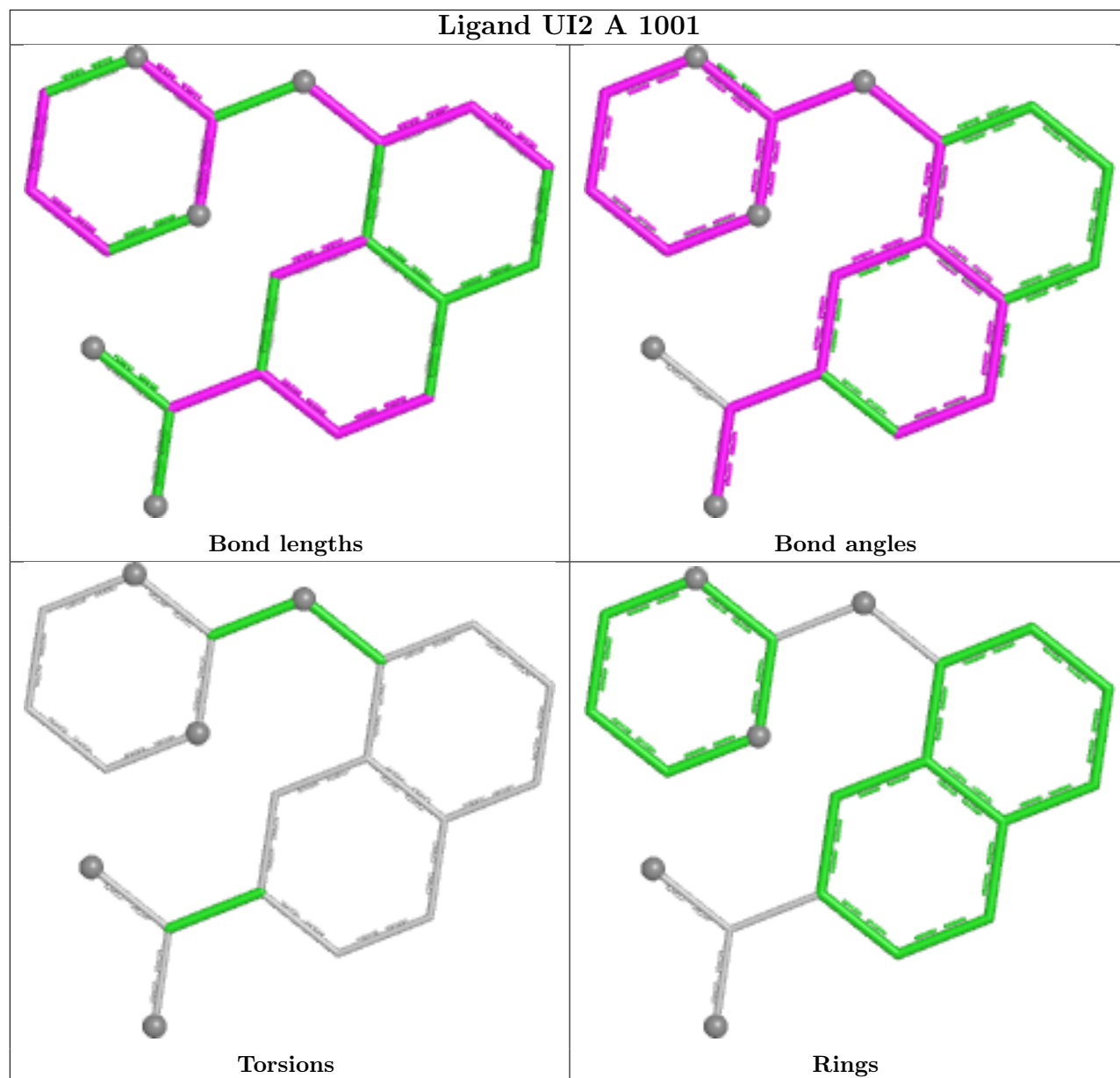
There are no torsion outliers.

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 [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	245/245 (100%)	-0.36	5 (2%) 65 72	4, 11, 26, 46	0

All (5) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	23	ARG	3.7
1	A	83	GLN	3.0
1	A	41	MET	2.8
1	A	178	ARG	2.5
1	A	222	ARG	2.1

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.

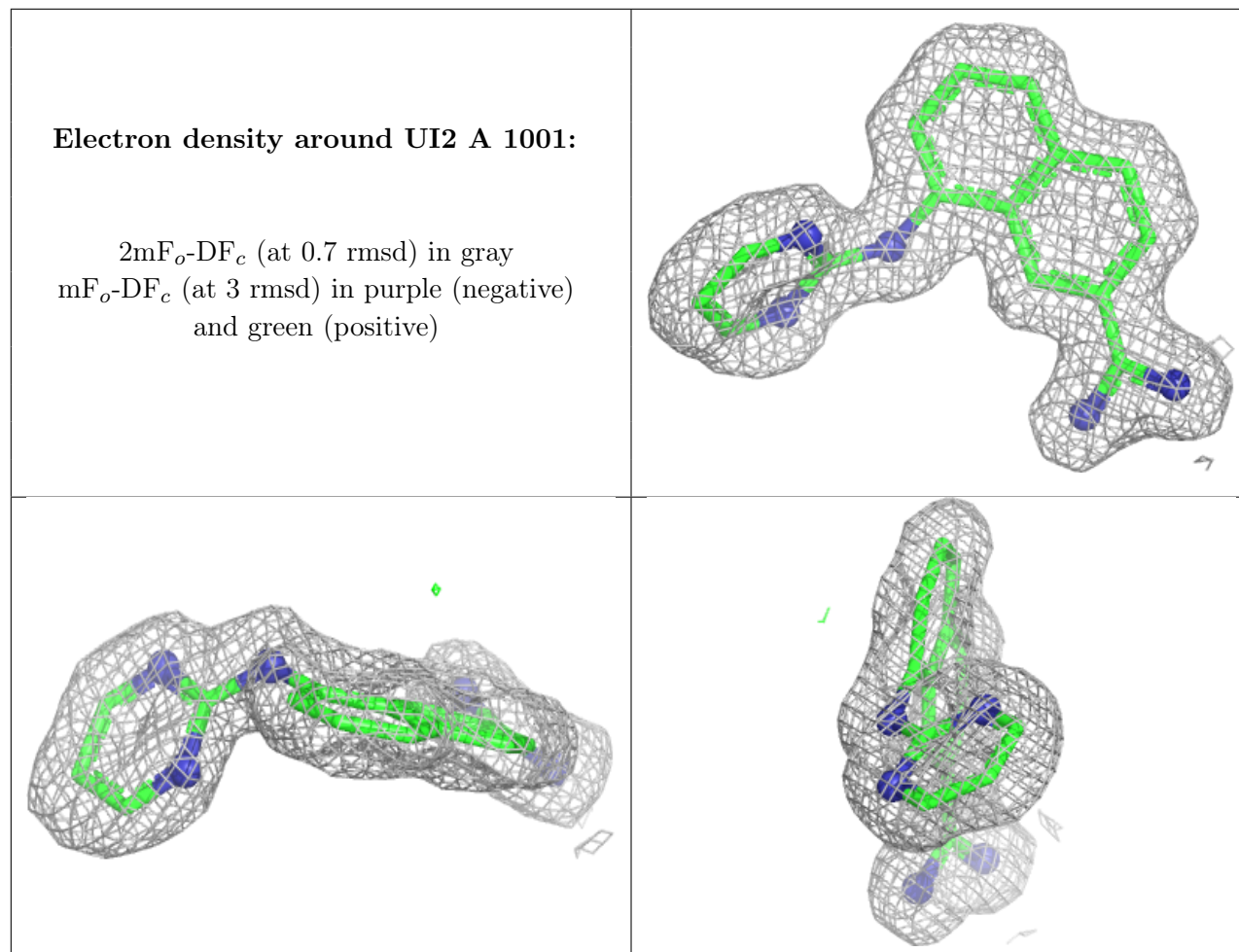
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
2	SO4	A	302	5/5	0.94	0.07	25,28,32,33	0
3	UI2	A	1001	20/20	0.96	0.04	3,6,10,10	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	SO4	A	303	5/5	0.97	0.07	34,35,37,39	0
2	SO4	A	301	5/5	0.98	0.04	20,21,23,25	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 [i](#)

There are no such residues in this entry.