



Full wwPDB X-ray Structure Validation Report ⓘ

Aug 4, 2025 – 02:49 PM EDT

PDB ID : 9D02 / pdb_00009d02
Title : Co-crystal structure of circularly permuted human taspase-1 bound to ligand
SMDC1014883 (2R)-4-(ethenesulfonyl)-1-{{3-fluoro-4-(trifluoromethoxy)phenyl}methyl}-2-[(prop-2-yn-1-yloxy)methyl]piperazine
Authors : Delker, S.L.; Edwards, T.E.; Abendroth, J.
Deposited on : 2024-08-06
Resolution : 2.15 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 Phenix2.0rc1
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0rc1
EDS	:	3.0
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
CCP4	:	9.0.006 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.45.1

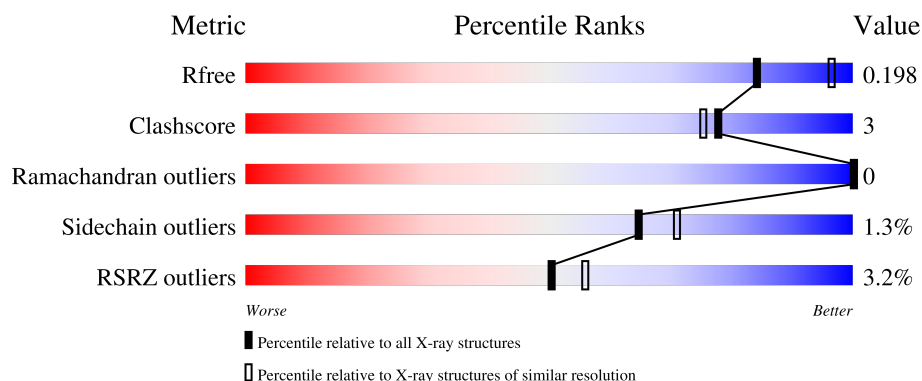
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION



The reported resolution of this entry is 2.15 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}	164625	1881 (2.16-2.16)
Clashscore	180529	2047 (2.16-2.16)
Ramachandran outliers	177936	2027 (2.16-2.16)
Sidechain outliers	177891	2026 (2.16-2.16)
RSRZ outliers	164620	1882 (2.16-2.16)

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	339	
1	B	339	

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 4697 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 Threonine aspartase subunit beta,Threonine aspartase subunit alpha.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	320	Total	C	N	O	S	0	3	0
			2283	1416	407	439	21			
1	B	309	Total	C	N	O	S	0	1	0
			2196	1363	393	420	20			

There are 26 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1	MET	-	initiating methionine	UNP Q9H6P5
A	185	GLY	-	linker	UNP Q9H6P5
A	186	SER	-	linker	UNP Q9H6P5
A	187	GLY	-	linker	UNP Q9H6P5
A	188	SER	-	linker	UNP Q9H6P5
A	332	LEU	-	expression tag	UNP Q9H6P5
A	333	GLU	-	expression tag	UNP Q9H6P5
A	334	HIS	-	expression tag	UNP Q9H6P5
A	335	HIS	-	expression tag	UNP Q9H6P5
A	336	HIS	-	expression tag	UNP Q9H6P5
A	337	HIS	-	expression tag	UNP Q9H6P5
A	338	HIS	-	expression tag	UNP Q9H6P5
A	339	HIS	-	expression tag	UNP Q9H6P5
B	1	MET	-	initiating methionine	UNP Q9H6P5
B	185	GLY	-	linker	UNP Q9H6P5
B	186	SER	-	linker	UNP Q9H6P5
B	187	GLY	-	linker	UNP Q9H6P5
B	188	SER	-	linker	UNP Q9H6P5
B	332	LEU	-	expression tag	UNP Q9H6P5
B	333	GLU	-	expression tag	UNP Q9H6P5
B	334	HIS	-	expression tag	UNP Q9H6P5
B	335	HIS	-	expression tag	UNP Q9H6P5
B	336	HIS	-	expression tag	UNP Q9H6P5
B	337	HIS	-	expression tag	UNP Q9H6P5

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Chain	Residue	Modelled	Actual	Comment	Reference
B	338	HIS	-	expression tag	UNP Q9H6P5
B	339	HIS	-	expression tag	UNP Q9H6P5

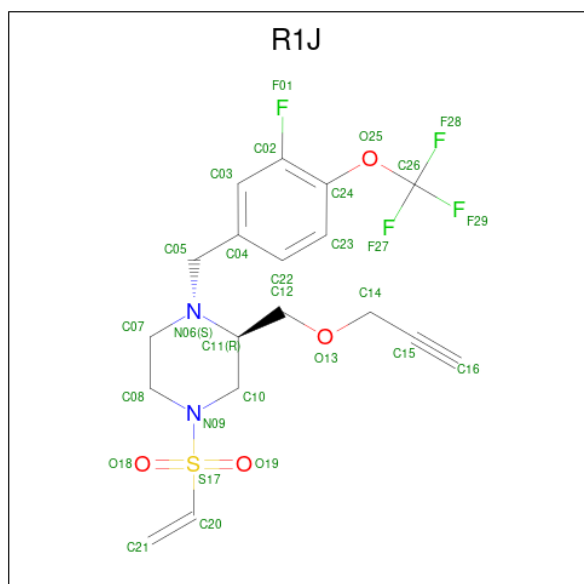
- Molecule 2 is CHLORIDE ION (CCD ID: CL) (formula: Cl).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	1	Total Cl 1 1	0	0
2	B	1	Total Cl 1 1	0	0

- Molecule 3 is SODIUM ION (CCD ID: NA) (formula: Na).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total Na 1 1	0	0
3	B	1	Total Na 1 1	0	0

- Molecule 4 is (2R)-4-(ethenylsulfonyl)-1-{[3-fluoro-4-(trifluoromethoxy)phenyl]methyl}-2-{[(prop-2-yn-1-yl)oxy]methyl}piperazine (CCD ID: R1J) (formula: C₁₈H₂₀F₄N₂O₄S) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
4	A	1	Total	C	F	N	O	S	0	1
			29	18	4	2	4	1		

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
4	B	1	Total	C	F	N	O	S	
			29	18	4	2	4	1	
								0	0

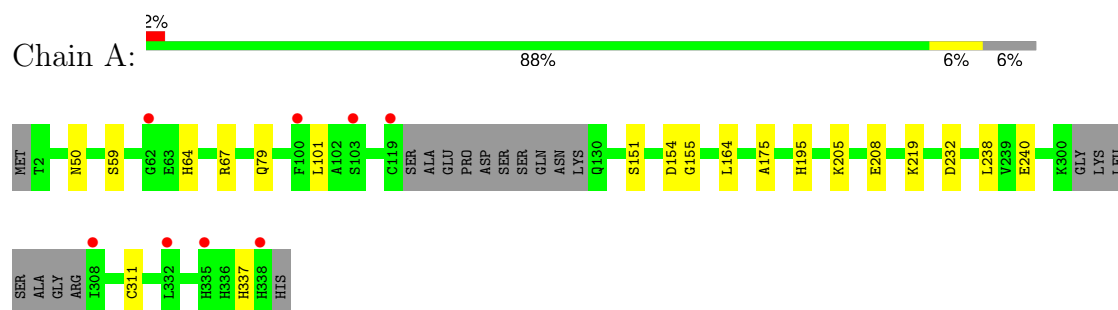
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	74	Total	O		
			76	76	0	2
5	B	78	Total	O		
			80	80	0	2

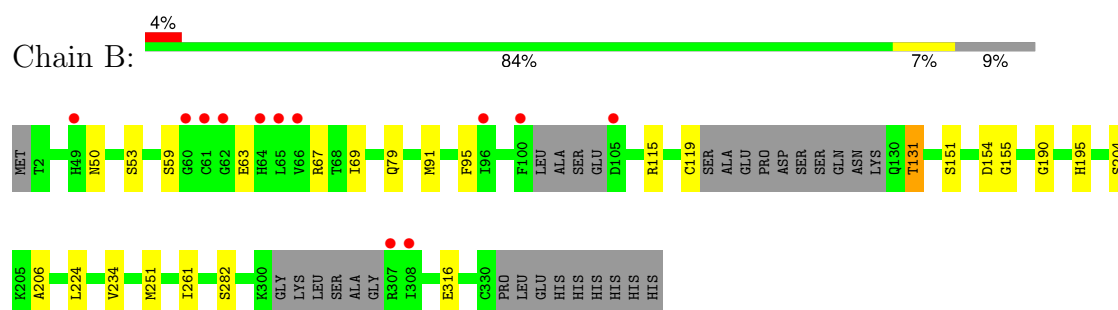
3 Residue-property plots [i](#)

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: Threonine aspartase subunit beta,Threonine aspartase subunit alpha



- Molecule 1: Threonine aspartase subunit beta,Threonine aspartase subunit alpha



4 Data and refinement statistics

Property	Value	Source
Space group	P 65	Depositor
Cell constants a, b, c, α , β , γ	60.43Å 60.43Å 317.71Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	49.71 – 2.15 49.71 – 2.15	Depositor EDS
% Data completeness (in resolution range)	100.0 (49.71-2.15) 100.0 (49.71-2.15)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.71 (at 2.16Å)	Xtriage
Refinement program	PHENIX DEV_2733	Depositor
R, R_{free}	0.157 , 0.195 0.160 , 0.198	Depositor DCC
R_{free} test set	1965 reflections (5.54%)	wwPDB-VP
Wilson B-factor (Å ²)	38.2	Xtriage
Anisotropy	0.293	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 46.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	0.086 for h,-h-k,-l	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	4697	wwPDB-VP
Average B, all atoms (Å ²)	52.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.60% 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: CL, R1J, NA

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	0/2334	0.50	0/3170
1	B	0.30	0/2234	0.47	0/3026
All	All	0.31	0/4568	0.49	0/6196

There are no bond length outliers.

There are no bond angle outliers.

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	2283	0	2183	12	0
1	B	2196	0	2125	14	0
2	A	1	0	0	0	0
2	B	1	0	0	0	0
3	A	1	0	0	0	0
3	B	1	0	0	0	0
4	A	29	0	0	0	0
4	B	29	0	0	0	0
5	A	76	0	0	2	0
5	B	80	0	0	2	0
All	All	4697	0	4308	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 3.

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:311[B]:CYS:SG	1:B:67:ARG:NH2	2.60	0.64
1:B:59:SER:HB3	1:B:195:HIS:CE1	2.36	0.61
1:B:50:ASN:HB2	1:B:79:GLN:CD	2.28	0.58
1:A:59:SER:HB3	1:A:195:HIS:CE1	2.39	0.58
1:B:91:MET:O	1:B:95:PHE:HB3	2.06	0.55
1:A:64:HIS:HA	1:A:101:LEU:HD21	1.88	0.55
1:A:50:ASN:HB2	1:A:79:GLN:OE1	2.09	0.53
1:A:164:LEU:HD23	1:A:175:ALA:HB2	1.92	0.52
1:A:232:ASP:OD2	5:A:501:HOH:O	2.20	0.50
1:A:50:ASN:HB2	1:A:79:GLN:CD	2.37	0.49
5:A:508:HOH:O	1:B:67:ARG:HD2	2.12	0.49
1:B:204:SER:C	1:B:206:ALA:H	2.22	0.48
1:B:119:CYS:HB2	1:B:131:THR:HG23	1.95	0.48
1:B:154:ASP:OD1	1:B:155:GLY:N	2.46	0.47
1:A:67:ARG:HD2	5:B:507:HOH:O	2.13	0.47
1:A:337:HIS:HB2	1:B:316:GLU:HG2	1.97	0.47
1:A:205:LYS:HA	1:A:208:GLU:OE1	2.16	0.46
1:B:251:MET:HG2	5:B:523:HOH:O	2.17	0.44
1:B:190:GLY:HA3	1:B:224:LEU:HD13	1.99	0.44
1:A:154:ASP:OD1	1:A:155:GLY:N	2.51	0.44
1:B:261:ILE:O	1:B:282:SER:OG	2.27	0.44
1:B:63:GLU:O	1:B:67:ARG:HG2	2.18	0.43
1:A:219:LYS:HG3	1:A:240:GLU:HG3	2.01	0.43
1:B:53:SER:O	1:B:115:ARG:HA	2.21	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	317/339 (94%)	309 (98%)	8 (2%)	0	100	100
1	B	302/339 (89%)	292 (97%)	10 (3%)	0	100	100
All	All	619/678 (91%)	601 (97%)	18 (3%)	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	232/258 (90%)	230 (99%)	2 (1%)	75	81
1	B	221/258 (86%)	217 (98%)	4 (2%)	54	59
All	All	453/516 (88%)	447 (99%)	6 (1%)	65	71

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

Mol	Chain	Res	Type
1	A	151	SER
1	A	238	LEU
1	B	69	ILE
1	B	131	THR
1	B	151	SER
1	B	234	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (3) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	84	HIS
1	A	211	HIS
1	B	225	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

Of 6 ligands modelled in this entry, 4 are 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	$\# Z > 2$
4	R1J	A	403[A]	1	30,30,30	3.36	4 (13%)	36,43,43	1.74	7 (19%)
4	R1J	B	403	1	30,30,30	3.27	4 (13%)	36,43,43	1.89	8 (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
4	R1J	A	403[A]	1	-	7/22/36/36	0/2/2/2
4	R1J	B	403	1	-	3/22/36/36	0/2/2/2

All (8) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	403[A]	R1J	O19-S17	12.58	1.59	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	B	403	R1J	O19-S17	11.93	1.58	1.43
4	A	403[A]	R1J	O18-S17	11.45	1.57	1.43
4	B	403	R1J	O18-S17	11.13	1.57	1.43
4	B	403	R1J	S17-N09	6.15	1.72	1.63
4	A	403[A]	R1J	S17-N09	5.82	1.72	1.63
4	B	403	R1J	C20-S17	3.15	1.80	1.74
4	A	403[A]	R1J	C20-S17	2.94	1.79	1.74

All (15) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	B	403	R1J	C08-N09-C10	6.58	120.06	112.66
4	A	403[A]	R1J	O25-C24-C02	4.48	119.59	116.29
4	A	403[A]	R1J	C08-N09-C10	4.48	117.69	112.66
4	A	403[A]	R1J	C11-C10-N09	-4.35	102.51	110.16
4	B	403	R1J	O18-S17-N09	4.19	110.63	106.69
4	B	403	R1J	O25-C24-C02	3.61	118.95	116.29
4	B	403	R1J	C07-N06-C11	3.53	116.47	109.68
4	A	403[A]	R1J	C07-N06-C11	2.88	115.22	109.68
4	A	403[A]	R1J	C10-N09-S17	2.74	122.12	117.17
4	A	403[A]	R1J	C05-N06-C07	2.40	114.81	110.68
4	B	403	R1J	C05-N06-C11	2.26	115.61	112.18
4	B	403	R1J	C20-S17-N09	-2.11	99.29	106.09
4	B	403	R1J	C10-N09-S17	2.07	120.90	117.17
4	A	403[A]	R1J	C03-C02-C24	-2.04	120.11	122.86
4	B	403	R1J	F01-C02-C24	2.03	120.91	118.01

There are no chirality outliers.

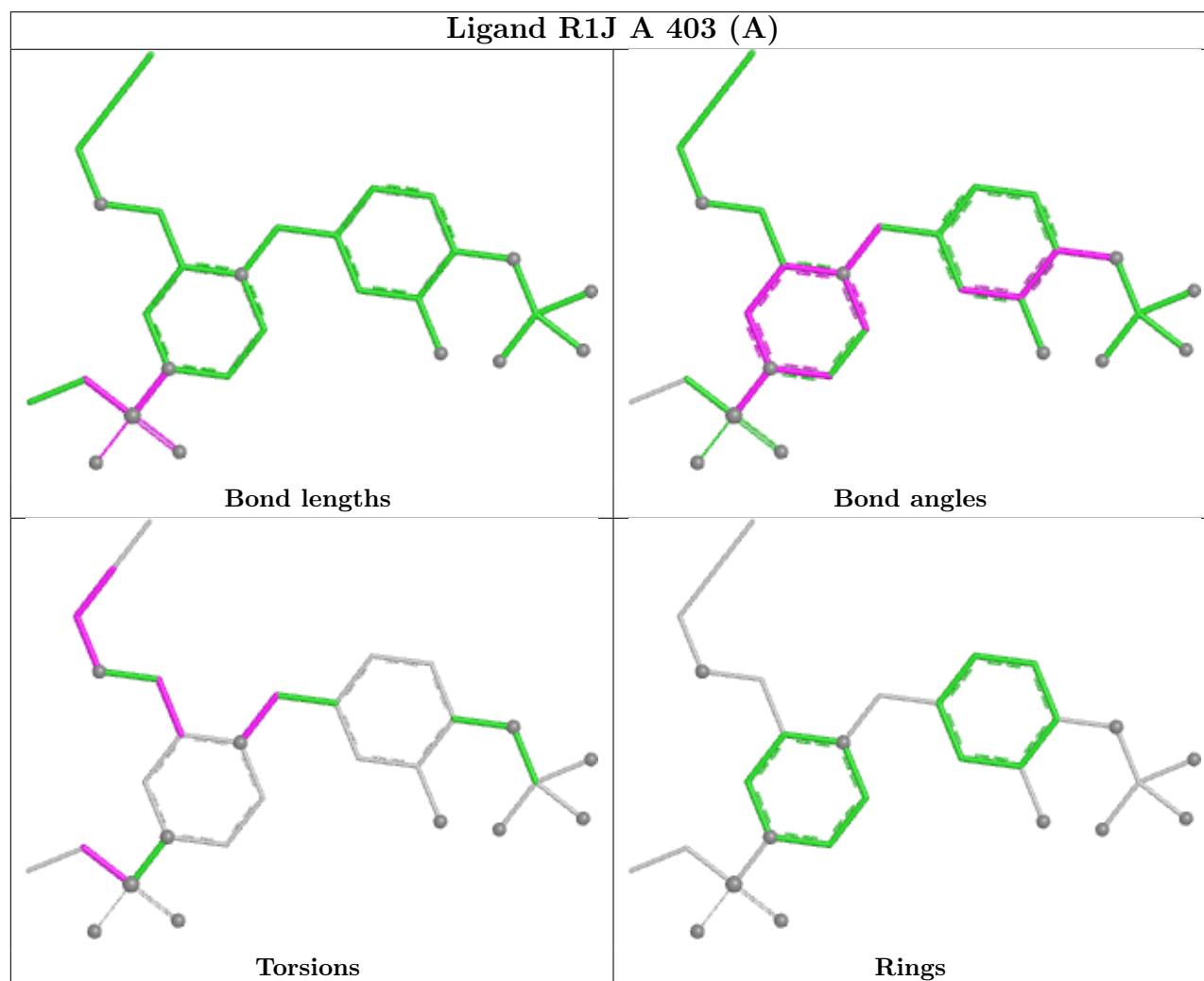
All (10) torsion outliers are listed below:

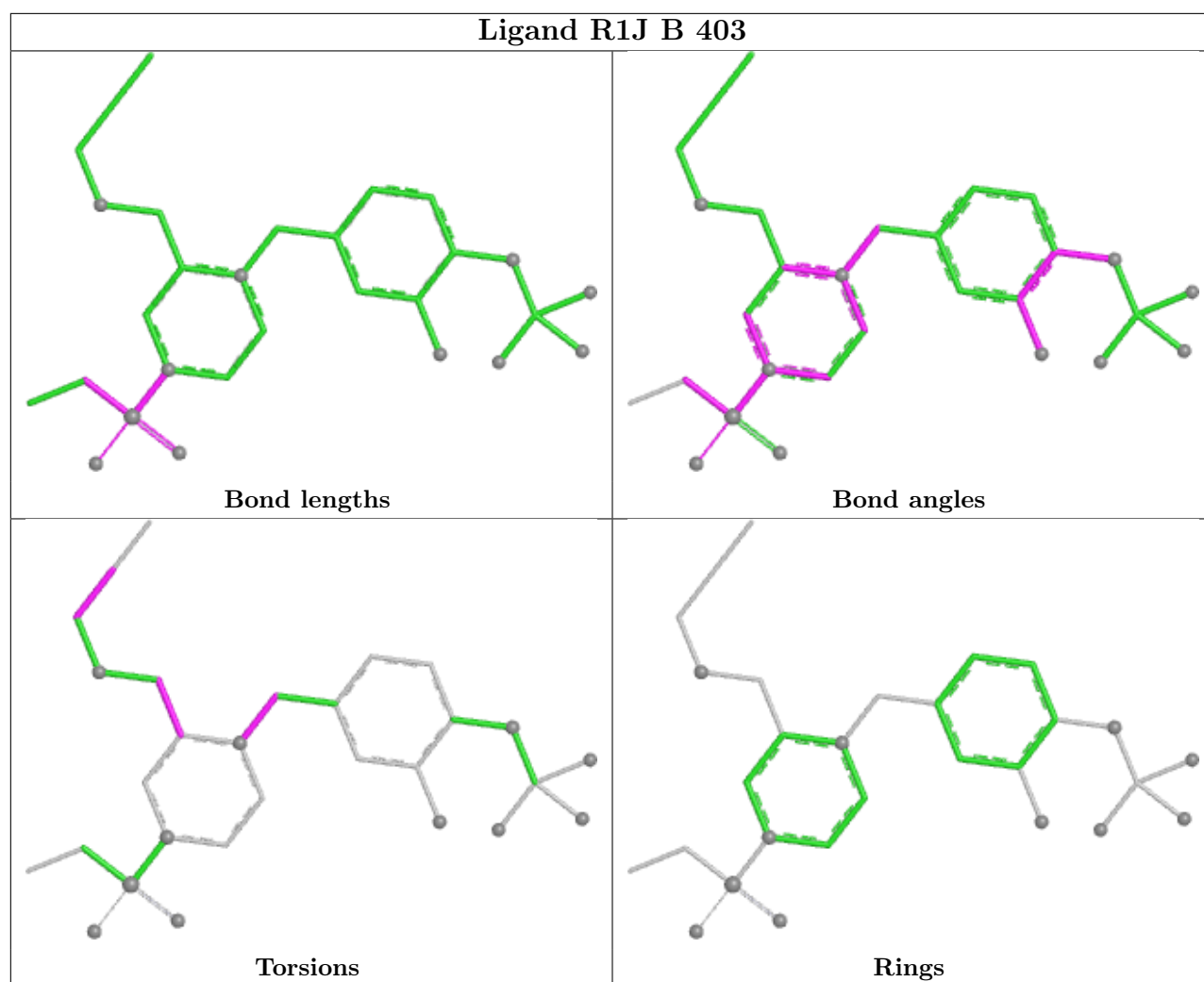
Mol	Chain	Res	Type	Atoms
4	A	403[A]	R1J	C04-C05-N06-C07
4	A	403[A]	R1J	C10-C11-C12-O13
4	A	403[A]	R1J	N06-C11-C12-O13
4	A	403[A]	R1J	C21-C20-S17-O19
4	B	403	R1J	C04-C05-N06-C07
4	B	403	R1J	C10-C11-C12-O13
4	A	403[A]	R1J	C21-C20-S17-O18
4	A	403[A]	R1J	C15-C14-O13-C12
4	A	403[A]	R1J	O13-C14-C15-C16
4	B	403	R1J	O13-C14-C15-C16

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	320/339 (94%)	-0.25	8 (2%) 58 63	24, 46, 95, 124	3 (0%)
1	B	309/339 (91%)	-0.11	12 (3%) 44 49	27, 49, 92, 114	1 (0%)
All	All	629/678 (92%)	-0.18	20 (3%) 50 56	24, 47, 92, 124	4 (0%)

All (20) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	308	ILE	5.0
1	A	332	LEU	4.0
1	B	66	VAL	4.0
1	B	100	PHE	3.6
1	A	100	PHE	3.4
1	B	65	LEU	3.3
1	B	105	ASP	2.9
1	A	338	HIS	2.9
1	B	49	HIS	2.8
1	B	62	GLY	2.6
1	A	103	SER	2.5
1	B	96	ILE	2.4
1	B	64	HIS	2.4
1	A	62	GLY	2.3
1	A	335	HIS	2.2
1	B	307	ARG	2.1
1	B	308	ILE	2.1
1	B	60	GLY	2.1
1	B	61[A]	CYS	2.1
1	A	119	CYS	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](#)

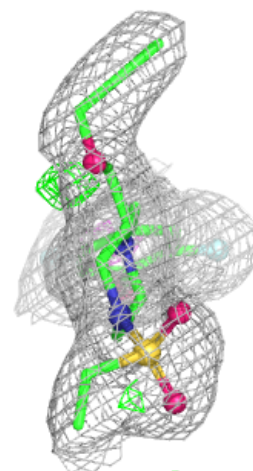
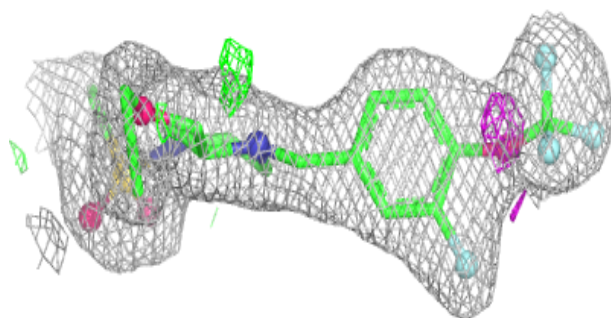
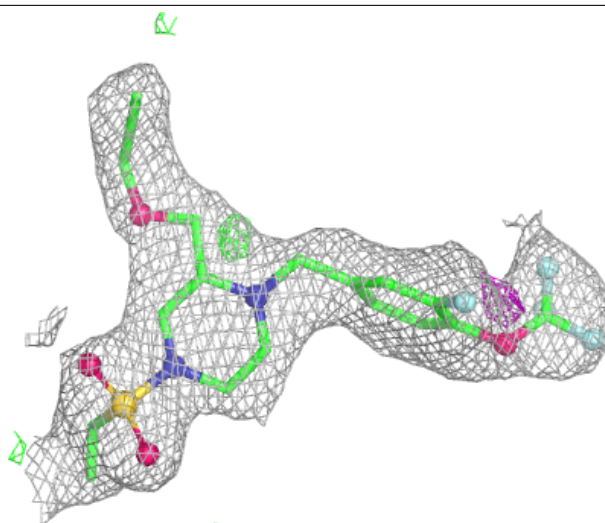
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
4	R1J	B	403	29/29	0.94	0.09	42,53,79,82	0
4	R1J	A	403[A]	29/29	0.95	0.10	31,46,71,73	29
3	NA	B	402	1/1	0.98	0.03	37,37,37,37	0
2	CL	B	401	1/1	0.98	0.10	46,46,46,46	0
3	NA	A	402	1/1	0.98	0.04	38,38,38,38	0
2	CL	A	401	1/1	0.99	0.05	48,48,48,48	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.

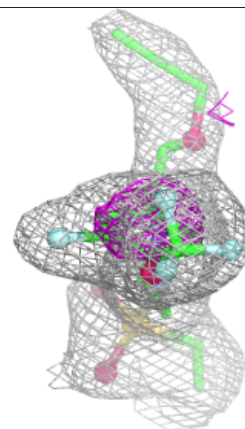
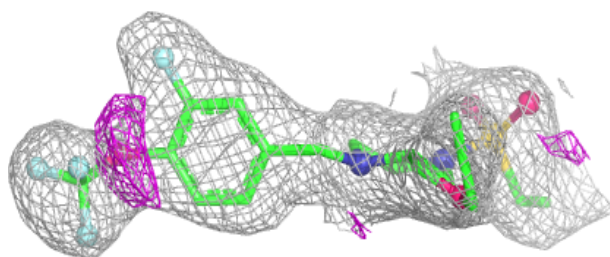
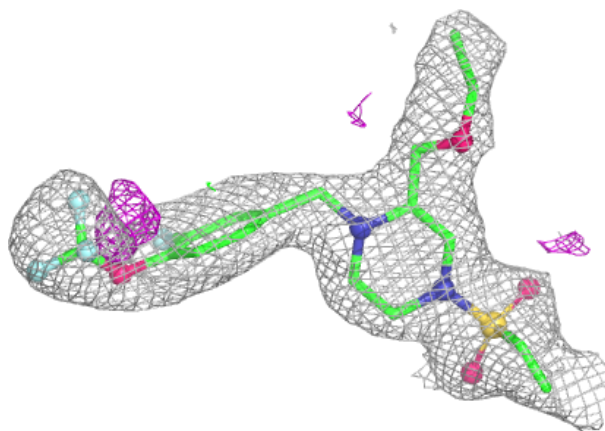
Electron density around R1J B 403:

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



Electron density around R1J A 403 (A):

$2mF_o-DF_c$ (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.