



Full wwPDB X-ray Structure Validation Report ⓘ

Aug 30, 2023 – 08:19 AM EDT

PDB ID : 3O64
Title : Crystal structure of catalytic domain of TACE with 2-(2-Aminothiazol-4-yl)pyrrolidine-Based Tartrate Diamides
Authors : Orth, P.
Deposited on : 2010-07-28
Resolution : 1.88 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 : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.35
buster-report : 1.1.7 (2018)
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.35

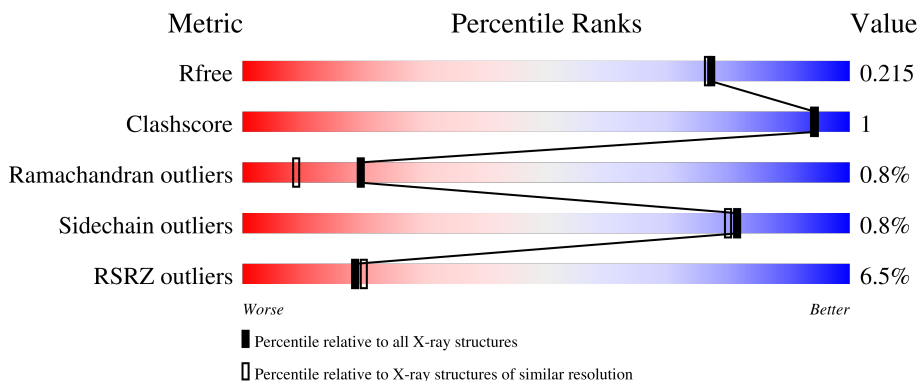
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.88 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}	130704	9470 (1.90-1.86)
Clashscore	141614	10282 (1.90-1.86)
Ramachandran outliers	138981	10152 (1.90-1.86)
Sidechain outliers	138945	10152 (1.90-1.86)
RSRZ outliers	127900	9303 (1.90-1.86)

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	270	 4% 90% 7%
1	B	270	 9% 91% 6%

2 Entry composition i

There are 7 unique types of molecules in this entry. The entry contains 4250 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 TACE.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	252	1961	1236	330	382	13	0	0	0
1	B	253	1911	1209	320	369	13	0	1	0

There are 22 discrepancies between the modelled and reference sequences:

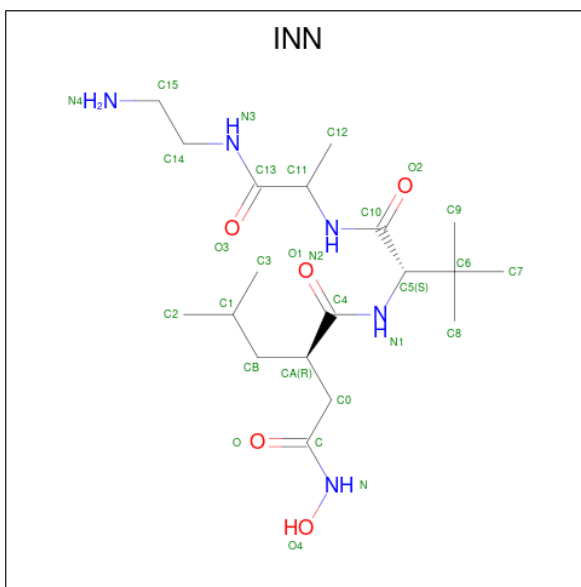
Chain	Residue	Modelled	Actual	Comment	Reference
A	266	ALA	SER	engineered mutation	UNP P78536
A	353	GLY	VAL	engineered mutation	UNP P78536
A	452	GLN	ASN	engineered mutation	UNP P78536
A	477	GLY	-	expression tag	UNP P78536
A	478	SER	-	expression tag	UNP P78536
A	479	HIS	-	expression tag	UNP P78536
A	480	HIS	-	expression tag	UNP P78536
A	481	HIS	-	expression tag	UNP P78536
A	482	HIS	-	expression tag	UNP P78536
A	483	HIS	-	expression tag	UNP P78536
A	484	HIS	-	expression tag	UNP P78536
B	266	ALA	SER	engineered mutation	UNP P78536
B	353	GLY	VAL	engineered mutation	UNP P78536
B	452	GLN	ASN	engineered mutation	UNP P78536
B	477	GLY	-	expression tag	UNP P78536
B	478	SER	-	expression tag	UNP P78536
B	479	HIS	-	expression tag	UNP P78536
B	480	HIS	-	expression tag	UNP P78536
B	481	HIS	-	expression tag	UNP P78536
B	482	HIS	-	expression tag	UNP P78536
B	483	HIS	-	expression tag	UNP P78536
B	484	HIS	-	expression tag	UNP P78536

- Molecule 2 is ISOPROPYL ALCOHOL (three-letter code: IPA) (formula: C₃H₈O).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	1	Total C O 4 3 1	0	0
2	B	1	Total C O 4 3 1	0	0
2	B	1	Total C O 4 3 1	0	0
2	B	1	Total C O 4 3 1	0	0
2	B	1	Total C O 4 3 1	0	0

- Molecule 3 is N-{(2R)-2-[2-(hydroxyamino)-2-oxoethyl]-4-methylpentanoyl}-3-methyl-L-valyl-N-(2-aminoethyl)-L-alaninamide (three-letter code: INN) (formula: C₁₉H₃₇N₅O₅).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	A	1	Total	C	N	O	0	1
			29	19	5	5		

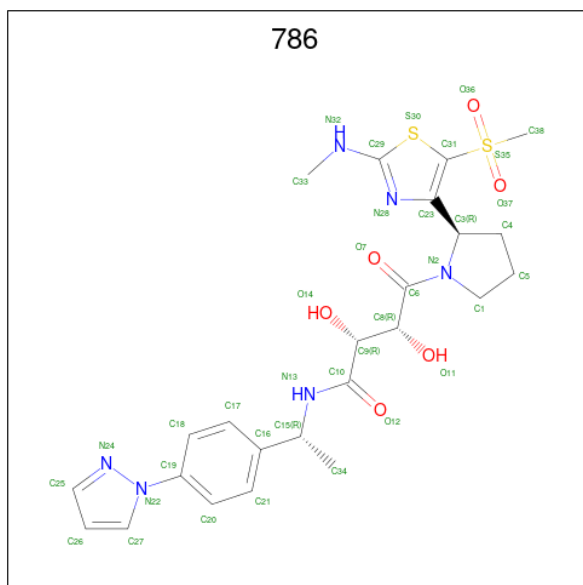
- Molecule 4 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	1	Total	Zn	0	0
			1	1		
4	B	1	Total	Zn	0	0
			1	1		

- Molecule 5 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	1	Total	Ca	0	0
			1	1		

- Molecule 6 is (2R,3R)-2,3-dihydroxy-4-[(2R)-2-[2-(methylamino)-5-(methylsulfonyl)-1,3-tiazol-4-yl]pyrrolidin-1-yl]-4-oxo-N-[(1R)-1-[4-(1H-pyrazol-1-yl)phenyl]ethyl]butanamide (three-letter code: 786) (formula: C₂₄H₃₀N₆O₆S₂).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	N	O	S		
6	B	1	38	24	6	6	2	0	0

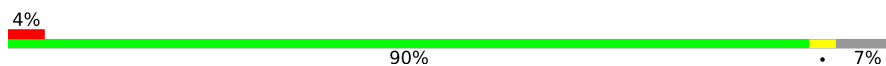
- Molecule 7 is water.

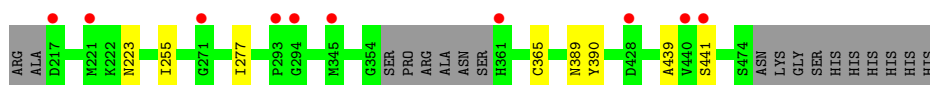
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	A	166	Total	O	0	0
			166	166		
7	B	122	Total	O	0	0
			122	122		

3 Residue-property plots [i](#)

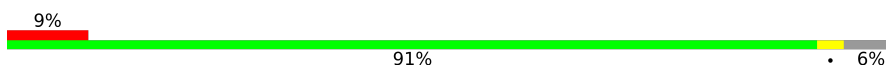
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. 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.

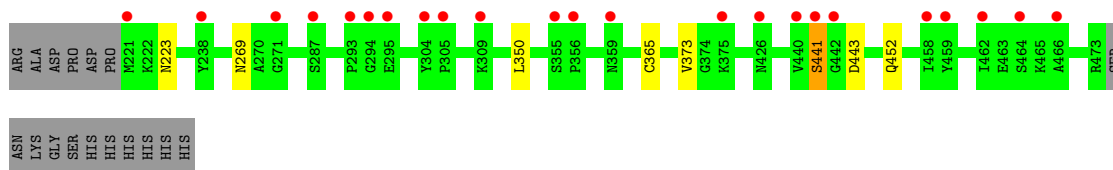
- Molecule 1: TACE

Chain A:  4% 90% 7%



- Molecule 1: TACE

Chain B:  9% 91% 6%



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	74.45Å 76.51Å 103.87Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	19.50 – 1.88 19.36 – 1.88	Depositor EDS
% Data completeness (in resolution range)	99.6 (19.50-1.88) 99.6 (19.36-1.88)	Depositor EDS
R_{merge}	0.11	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.04 (at 1.87Å)	Xtrriage
Refinement program	BUSTER 2.9.4	Depositor
R, R_{free}	0.188 , 0.218 0.190 , 0.215	Depositor DCC
R_{free} test set	943 reflections (1.94%)	wwPDB-VP
Wilson B-factor (Å ²)	27.1	Xtrriage
Anisotropy	0.137	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 53.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtrriage
Estimated twinning fraction	0.013 for k,h,-l	Xtrriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	4250	wwPDB-VP
Average B, all atoms (Å ²)	37.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.08% 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: ZN, IPA, CA, INN, 786

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	0.44	0/2005	0.60	0/2710
1	B	0.43	0/1961	0.63	0/2662
All	All	0.43	0/3966	0.61	0/5372

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	1961	0	1840	5	0
1	B	1911	0	1752	4	0
2	A	4	0	8	0	0
2	B	16	0	32	1	0
3	A	29	0	36	4	0
4	A	1	0	0	0	0
4	B	1	0	0	0	0
5	A	1	0	0	0	0
6	B	38	0	28	1	0
7	A	166	0	0	0	0
7	B	122	0	0	0	0
All	All	4250	0	3696	10	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 1.

All (10) 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:269:ASN:HD21	1:B:452:GLN:HE22	1.39	0.71
1:B:269:ASN:ND2	1:B:452:GLN:HE22	2.04	0.55
1:A:390:TYR:HE2	3:A:502[B]:INN:O3	1.91	0.54
1:A:255:ILE:HG23	1:A:277:ILE:HD12	1.90	0.54
1:B:350:LEU:HD11	2:B:505:IPA:H2	1.92	0.50
1:A:439:ALA:HB3	3:A:502[B]:INN:H123	1.95	0.48
6:B:501:786:H3	6:B:501:786:C38	2.43	0.48
1:A:390:TYR:OH	3:A:502[B]:INN:H141	2.16	0.45
1:A:389:ASN:ND2	3:A:502[B]:INN:H122	2.34	0.42
1:B:441:SER:HB3	1:B:443:ASP:OD2	2.19	0.42

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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	248/270 (92%)	240 (97%)	6 (2%)	2 (1%)	19	9
1	B	252/270 (93%)	243 (96%)	7 (3%)	2 (1%)	19	9
All	All	500/540 (93%)	483 (97%)	13 (3%)	4 (1%)	19	9

All (4) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	441	SER
1	B	441	SER
1	A	365	CYS
1	B	365	CYS

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	204/230 (89%)	203 (100%)	1 (0%)	88	88
1	B	191/230 (83%)	189 (99%)	2 (1%)	76	73
All	All	395/460 (86%)	392 (99%)	3 (1%)	81	80

All (3) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	223	ASN
1	B	223	ASN
1	B	373	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (7) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	223	ASN
1	A	281	GLN
1	A	471	GLN
1	B	223	ASN
1	B	359	ASN
1	B	452	GLN
1	B	471	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 monosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 10 ligands modelled in this entry, 3 are monoatomic - leaving 7 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
6	786	B	501	4	31,41,41	1.90	10 (32%)	41,60,60	3.51	15 (36%)
3	INN	A	502[B]	4	28,28,28	1.85	5 (17%)	36,38,38	2.73	14 (38%)
2	IPA	B	505	-	3,3,3	0.63	0	3,3,3	1.32	0
2	IPA	B	504	-	3,3,3	0.66	0	3,3,3	1.18	0
2	IPA	A	501	-	3,3,3	0.62	0	3,3,3	1.78	1 (33%)
2	IPA	B	502	-	3,3,3	0.60	0	3,3,3	1.46	1 (33%)
2	IPA	B	503	-	3,3,3	0.68	0	3,3,3	1.28	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	INN	A	502[B]	4	-	5/40/40/40	-
6	786	B	501	4	-	3/24/50/50	0/4/4/4

All (15) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	502[B]	INN	O3-C13	-5.16	1.13	1.23
3	A	502[B]	INN	C0-C	-4.30	1.41	1.51
6	B	501	786	C26-C25	3.81	1.47	1.37
6	B	501	786	C17-C16	3.67	1.45	1.39
3	A	502[B]	INN	O4-N	-3.58	1.31	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	B	501	786	O14-C9	3.43	1.49	1.42
6	B	501	786	C20-C21	3.21	1.43	1.36
6	B	501	786	C31-S30	2.88	1.77	1.72
6	B	501	786	C27-C26	-2.76	1.32	1.37
3	A	502[B]	INN	C11-C13	-2.73	1.45	1.52
6	B	501	786	C18-C17	2.72	1.42	1.36
3	A	502[B]	INN	C6-C5	2.69	1.59	1.56
6	B	501	786	C6-N2	-2.61	1.28	1.34
6	B	501	786	O7-C6	2.26	1.26	1.22
6	B	501	786	C21-C16	2.15	1.42	1.39

All (31) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	B	501	786	C33-N32-C29	-16.47	108.69	122.87
3	A	502[B]	INN	O-C-N	9.33	134.73	123.27
6	B	501	786	C4-C3-N2	6.44	109.33	101.94
6	B	501	786	O37-S35-O36	-5.96	107.66	117.92
3	A	502[B]	INN	O1-C4-CA	-5.33	115.18	122.12
6	B	501	786	C9-C8-C6	-4.90	103.06	109.48
3	A	502[B]	INN	O3-C13-C11	-4.83	109.80	120.52
3	A	502[B]	INN	C11-C13-N3	4.78	126.34	116.45
6	B	501	786	C26-C27-N22	4.48	109.44	106.78
3	A	502[B]	INN	O-C-C0	-4.13	115.44	121.50
3	A	502[B]	INN	C0-C-N	-3.84	109.33	115.14
6	B	501	786	C25-N24-N22	3.61	106.33	103.70
6	B	501	786	C1-N2-C3	-3.49	107.77	111.83
6	B	501	786	C5-C1-N2	3.36	109.14	103.25
6	B	501	786	C4-C3-C23	-3.34	106.09	114.13
3	A	502[B]	INN	C6-C5-C10	3.18	115.79	112.81
6	B	501	786	O36-S35-C38	3.16	113.03	108.49
3	A	502[B]	INN	C8-C6-C7	-3.07	102.83	108.80
6	B	501	786	C21-C20-C19	-3.00	119.28	121.79
6	B	501	786	O36-S35-C31	-2.91	103.64	108.99
3	A	502[B]	INN	C0-CA-C4	-2.84	105.66	109.77
6	B	501	786	O14-C9-C8	-2.81	104.66	110.23
6	B	501	786	O11-C8-C6	-2.72	104.42	108.54
2	A	501	IPA	O2-C2-C3	-2.71	92.24	110.36
3	A	502[B]	INN	CB-CA-C4	2.69	114.20	109.44
6	B	501	786	C18-C19-C20	2.65	120.25	116.27
3	A	502[B]	INN	O2-C10-C5	-2.26	117.21	120.89
2	B	502	IPA	O2-C2-C3	-2.21	95.56	110.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	502[B]	INN	C7-C6-C5	2.14	114.04	109.70
3	A	502[B]	INN	O1-C4-N1	2.07	126.77	122.93
3	A	502[B]	INN	C6-C5-N1	-2.06	109.26	111.84

There are no chirality outliers.

All (8) torsion outliers are listed below:

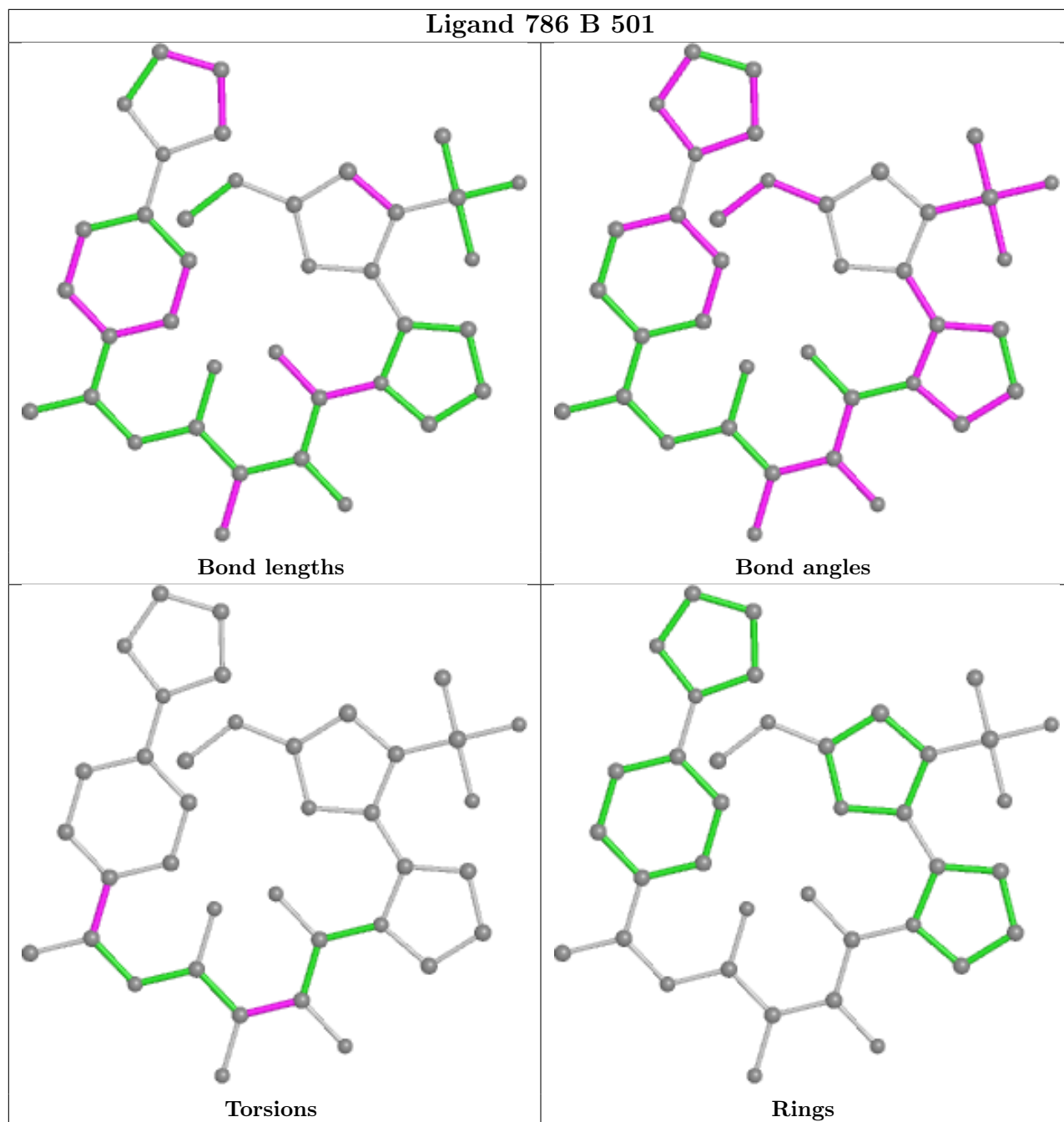
Mol	Chain	Res	Type	Atoms
3	A	502[B]	INN	C11-C13-N3-C14
3	A	502[B]	INN	O3-C13-N3-C14
3	A	502[B]	INN	N2-C11-C13-N3
6	B	501	786	O11-C8-C9-O14
3	A	502[B]	INN	N2-C11-C13-O3
6	B	501	786	N13-C15-C16-C21
3	A	502[B]	INN	C13-C11-N2-C10
6	B	501	786	N13-C15-C16-C17

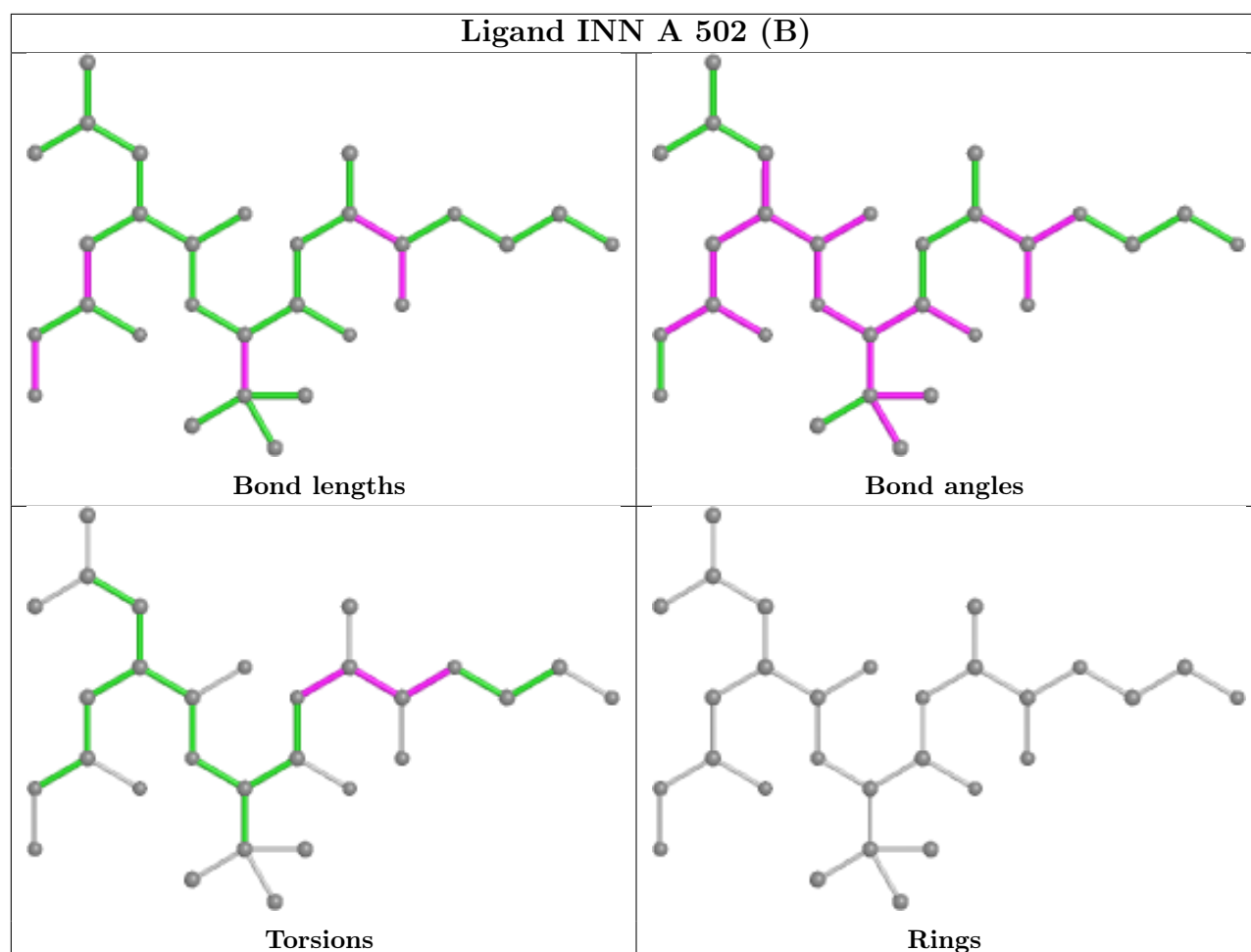
There are no ring outliers.

3 monomers are involved in 6 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	B	501	786	1	0
3	A	502[B]	INN	4	0
2	B	505	IPA	1	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.





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	252/270 (93%)	0.04	10 (3%) 38 39	18, 29, 56, 80	0
1	B	253/270 (93%)	0.39	23 (9%) 9 10	19, 40, 77, 108	0
All	All	505/540 (93%)	0.22	33 (6%) 18 20	18, 35, 65, 108	0

All (33) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	441	SER	5.4
1	A	217	ASP	5.1
1	B	441	SER	4.6
1	B	356	PRO	4.6
1	B	466	ALA	4.0
1	B	440	VAL	3.9
1	B	221	MET	3.8
1	A	361	HIS	3.5
1	A	345	MET	3.5
1	B	359	ASN	3.4
1	A	428	ASP	3.3
1	B	238	TYR	3.3
1	B	287	SER	3.2
1	A	221	MET	3.1
1	B	305	PRO	3.1
1	B	309	LYS	3.1
1	B	294	GLY	3.0
1	B	442	GLY	3.0
1	A	440	VAL	2.9
1	B	293	PRO	2.7
1	A	294	GLY	2.6
1	A	271	GLY	2.6
1	B	304	TYR	2.6
1	A	293	PRO	2.5

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Mol	Chain	Res	Type	RSRZ
1	B	375	LYS	2.5
1	B	464	SER	2.4
1	B	295	GLU	2.4
1	B	458	ILE	2.3
1	B	459	TYR	2.2
1	B	462	ILE	2.2
1	B	271	GLY	2.1
1	B	426	ASN	2.0
1	B	355	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 monosaccharides in this entry.

6.4 Ligands [i](#)

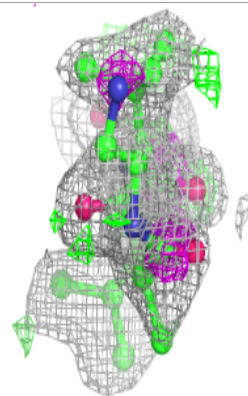
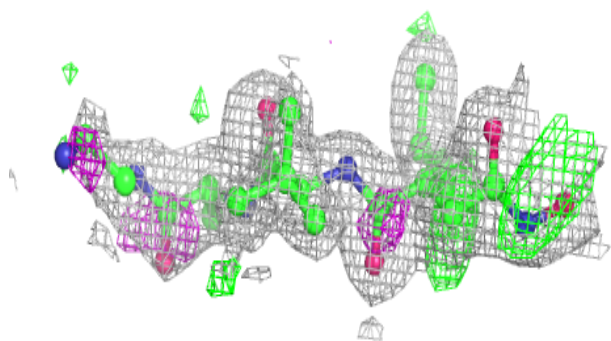
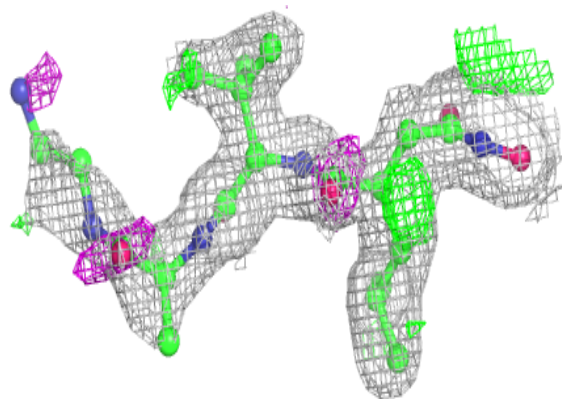
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists 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	IPA	B	503	4/4	0.77	0.23	64,66,66,66	0
2	IPA	B	505	4/4	0.81	0.27	53,54,55,57	0
2	IPA	B	504	4/4	0.85	0.17	57,57,57,58	0
3	INN	A	502[B]	29/29	0.89	0.17	22,33,56,60	0
6	786	B	501	38/38	0.92	0.12	22,28,52,55	0
2	IPA	A	501	4/4	0.93	0.11	32,34,36,37	0
2	IPA	B	502	4/4	0.94	0.23	57,58,58,58	0
5	CA	A	504	1/1	0.99	0.21	39,39,39,39	0
4	ZN	A	503	1/1	1.00	0.05	22,22,22,22	0
4	ZN	B	506	1/1	1.00	0.04	24,24,24,24	0

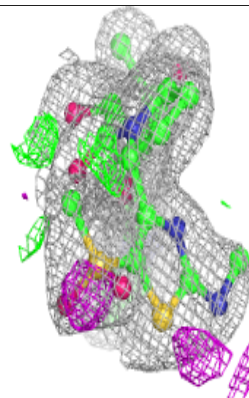
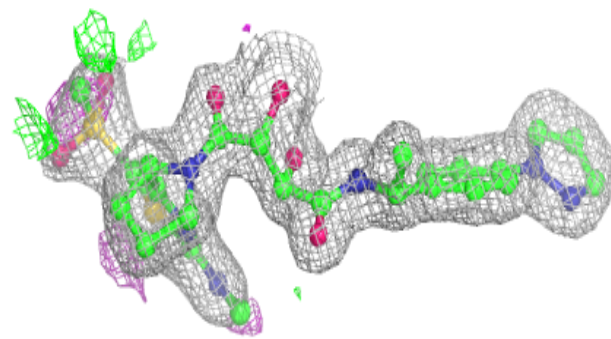
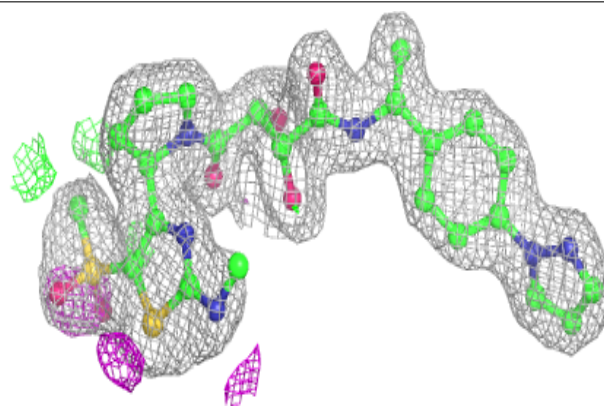
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

Electron density around INN A 502 (B):

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

**Electron density around 786 B 501:**

$2mF_o-DF_c$ (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.