



Full wwPDB X-ray Structure Validation Report ⓘ

Apr 24, 2026 – 10:12 PM EDT

PDB ID : 1G7F / pdb_00001g7f
Title : HUMAN PTP1B CATALYTIC DOMAIN COMPLEXED WITH PNU177496
Authors : Bleasdale, J.E.; Ogg, D.; Larsen, S.D.
Deposited on : 2000-11-10
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

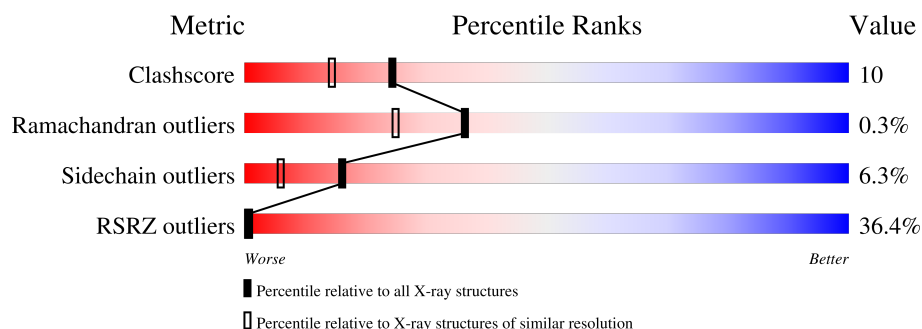
1 Overall quality at a glance

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))
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	298	

2 Entry composition [i](#)

There are 3 unique types of molecules in this entry. The entry contains 2927 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.

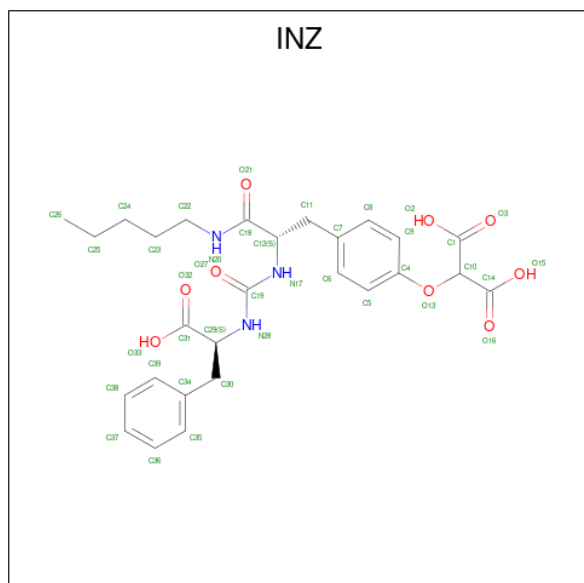
- Molecule 1 is a protein called PROTEIN-TYROSINE PHOSPHATASE, NON-RECEPTOR TYPE 1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	297	2426	1534	418	458	16	0	0	0

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	252	ASP	GLU	conflict	UNP P18031

- Molecule 2 is 2-{4-[(2S)-2-[(1S)-1-CARBOXY-2-PHENYLETHYL]AMINO}CARBONYLAMINO]-3-OXO-3-(PENTYLAMINO)PROPYL]PHENOXY}MALONIC ACID (CCD ID: INZ) (formula: C₂₇H₃₃N₃O₉).



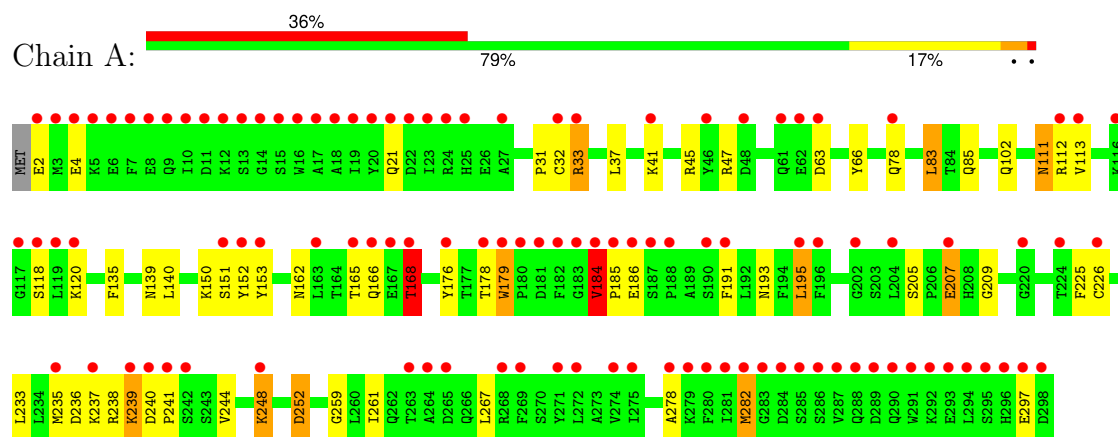
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	462	Total 462	O 462	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: PROTEIN-TYROSINE PHOSPHATASE, NON-RECEPTOR TYPE 1



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	52.74Å 83.82Å 88.66Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	50.00 – 1.80 50.00 – 1.80	Depositor EDS
% Data completeness (in resolution range)	(Not available) (50.00-1.80) 95.4 (50.00-1.80)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	8.71 (at 1.79Å)	Xtriage
Refinement program	REFMAC	Depositor
R, R_{free}	0.180 , 0.249 0.250 , (Not available)	Depositor DCC
R_{free} test set	No test flags present.	wwPDB-VP
Wilson B-factor (Å ²)	15.2	Xtriage
Anisotropy	0.809	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.37 , 54.1	EDS
L-test for twinning ²	$\langle L \rangle = 0.47$, $\langle L^2 \rangle = 0.30$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.90	EDS
Total number of atoms	2927	wwPDB-VP
Average B, all atoms (Å ²)	24.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.82% 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: INZ

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	1.07	1/2481 (0.0%)	1.44	18/3343 (0.5%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	32	CYS	CA-CB	9.01	1.66	1.53

All (18) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	239	LYS	CA-C-N	13.10	137.26	122.85
1	A	239	LYS	C-N-CA	13.10	137.26	122.85
1	A	252	ASP	N-CA-CB	9.39	123.92	110.12
1	A	184	VAL	N-CA-CB	-9.21	103.84	111.67
1	A	33	ARG	N-CA-C	8.36	121.21	111.02
1	A	240	ASP	N-CA-CB	8.09	121.31	110.79
1	A	240	ASP	O-C-N	7.27	127.12	121.23
1	A	31	PRO	CA-C-N	7.24	134.18	122.67
1	A	31	PRO	C-N-CA	7.24	134.18	122.67
1	A	66	TYR	N-CA-C	6.67	120.52	109.46
1	A	252	ASP	CB-CG-OD1	6.57	133.51	118.40
1	A	151	SER	CA-C-N	-6.32	112.64	122.37
1	A	151	SER	C-N-CA	-6.32	112.64	122.37
1	A	135	PHE	CA-CB-CG	-5.82	107.98	113.80
1	A	259	GLY	N-CA-C	5.60	122.95	114.61
1	A	168	THR	N-CA-CB	-5.44	101.36	110.83
1	A	252	ASP	OD1-CG-OD2	-5.35	110.06	122.90
1	A	63	ASP	N-CA-C	5.22	117.06	111.36

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	2426	0	2379	48	0
2	A	39	0	30	1	0
3	A	462	0	0	9	2
All	All	2927	0	2409	48	2

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 10.

All (48) 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:235:MET:HE1	1:A:278:ALA:CB	2.13	0.78
1:A:239:LYS:HA	1:A:239:LYS:HE2	1.66	0.78
1:A:45:ARG:H	1:A:85:GLN:HE22	1.31	0.76
1:A:184:VAL:HG22	1:A:185:PRO:HD2	1.73	0.71
1:A:241:PRO:HD2	1:A:282:MET:HE1	1.74	0.69
1:A:78:GLN:HE21	1:A:237:LYS:NZ	1.93	0.66
1:A:152:TYR:OH	1:A:193:ASN:HB3	1.96	0.65
1:A:45:ARG:H	1:A:85:GLN:NE2	1.97	0.62
1:A:195:LEU:C	1:A:195:LEU:HD23	2.24	0.62
1:A:235:MET:HE1	1:A:278:ALA:HB2	1.81	0.62
1:A:78:GLN:HE21	1:A:237:LYS:HZ1	1.50	0.59
1:A:150:LYS:HD2	1:A:153:TYR:CZ	2.38	0.58
1:A:191:PHE:HZ	1:A:225:PHE:HA	1.70	0.57
1:A:152:TYR:HB2	1:A:178:THR:OG1	2.06	0.56
1:A:83:LEU:HD21	1:A:226:CYS:SG	2.48	0.55
1:A:241:PRO:CD	1:A:282:MET:HE1	2.37	0.53
1:A:195:LEU:HG	3:A:825:HOH:O	2.09	0.53
1:A:120:LYS:HE3	3:A:942:HOH:O	2.09	0.52
1:A:47:ARG:NH2	2:A:500:INZ:HC39	2.25	0.52
1:A:179:TRP:CH2	1:A:184:VAL:HG23	2.46	0.51
1:A:235:MET:HE3	1:A:241:PRO:HB3	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:195:LEU:HD23	1:A:195:LEU:O	2.13	0.49
1:A:235:MET:HE1	1:A:278:ALA:HB1	1.95	0.48
1:A:168:THR:HG23	3:A:838:HOH:O	2.14	0.47
1:A:238:ARG:HH22	1:A:248:LYS:HZ3	1.62	0.47
1:A:150:LYS:HD3	1:A:297:GLU:OE1	2.15	0.47
1:A:152:TYR:HH	1:A:193:ASN:HB3	1.78	0.47
1:A:152:TYR:OH	1:A:193:ASN:ND2	2.38	0.46
1:A:41:LYS:HD2	3:A:811:HOH:O	2.15	0.46
1:A:236:ASP:O	1:A:239:LYS:HE3	2.16	0.46
1:A:195:LEU:C	1:A:195:LEU:CD2	2.89	0.45
1:A:205:SER:OG	1:A:207:GLU:HG3	2.15	0.45
1:A:33:ARG:NH1	3:A:721:HOH:O	2.49	0.45
1:A:235:MET:HG2	1:A:241:PRO:HB3	1.99	0.45
1:A:2:GLU:HG3	1:A:4:GLU:H	1.82	0.44
1:A:179:TRP:HB3	3:A:959:HOH:O	2.16	0.43
1:A:78:GLN:NE2	1:A:237:LYS:NZ	2.63	0.43
1:A:168:THR:HG21	3:A:863:HOH:O	2.19	0.43
1:A:112:ARG:NH1	3:A:849:HOH:O	2.51	0.42
1:A:176:TYR:CD2	1:A:179:TRP:HD1	2.38	0.42
1:A:235:MET:CG	1:A:241:PRO:HB3	2.49	0.42
1:A:21:GLN:HG2	3:A:860:HOH:O	2.20	0.41
1:A:102:GLN:O	1:A:209:GLY:HA3	2.21	0.41
1:A:2:GLU:HG3	1:A:4:GLU:N	2.36	0.41
1:A:111:ASN:H	1:A:111:ASN:HD22	1.69	0.41
1:A:140:LEU:HD23	1:A:162:ASN:HA	2.03	0.41
1:A:235:MET:HG3	1:A:244:VAL:HG21	2.03	0.40
1:A:165:THR:O	1:A:166:GLN:HB2	2.21	0.40

All (2) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:597:HOH:O	3:A:789:HOH:O[2_554]	1.97	0.23
3:A:597:HOH:O	3:A:673:HOH:O[2_554]	2.18	0.02

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	295/298 (99%)	287 (97%)	7 (2%)	1 (0%)	36	25

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	261	ILE

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	270/271 (100%)	253 (94%)	17 (6%)	16	6

All (17) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	37	LEU
1	A	83	LEU
1	A	111	ASN
1	A	113	VAL
1	A	118	SER
1	A	139	ASN
1	A	168	THR
1	A	179	TRP
1	A	184	VAL
1	A	186	GLU

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Mol	Chain	Res	Type
1	A	195	LEU
1	A	207	GLU
1	A	233	LEU
1	A	248	LYS
1	A	252	ASP
1	A	267	LEU
1	A	282	MET

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	61	GLN
1	A	78	GLN
1	A	85	GLN
1	A	111	ASN
1	A	123	GLN
1	A	139	ASN
1	A	262	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 ⓘ

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	INZ	A	500	-	39,40,40	1.51	5 (12%)	46,52,52	1.37	7 (15%)

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	INZ	A	500	-	-	3/42/42/42	0/2/2/2

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	500	INZ	O32-C31	4.31	1.34	1.22
2	A	500	INZ	O16-C14	4.17	1.34	1.22
2	A	500	INZ	O33-C31	-3.34	1.20	1.30
2	A	500	INZ	O15-C14	-2.56	1.22	1.30
2	A	500	INZ	O27-C19	2.05	1.27	1.23

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	500	INZ	O13-C10-C1	-3.85	104.11	109.80
2	A	500	INZ	O32-C31-C29	-3.13	112.16	122.26
2	A	500	INZ	O33-C31-C29	2.89	123.30	113.51
2	A	500	INZ	O13-C10-C14	2.89	114.05	109.80
2	A	500	INZ	C11-C12-N17	-2.41	105.85	110.83
2	A	500	INZ	C18-C12-N17	-2.37	104.70	111.11
2	A	500	INZ	C6-C5-C4	2.19	122.23	119.73

There are no chirality outliers.

All (3) torsion outliers are listed below:

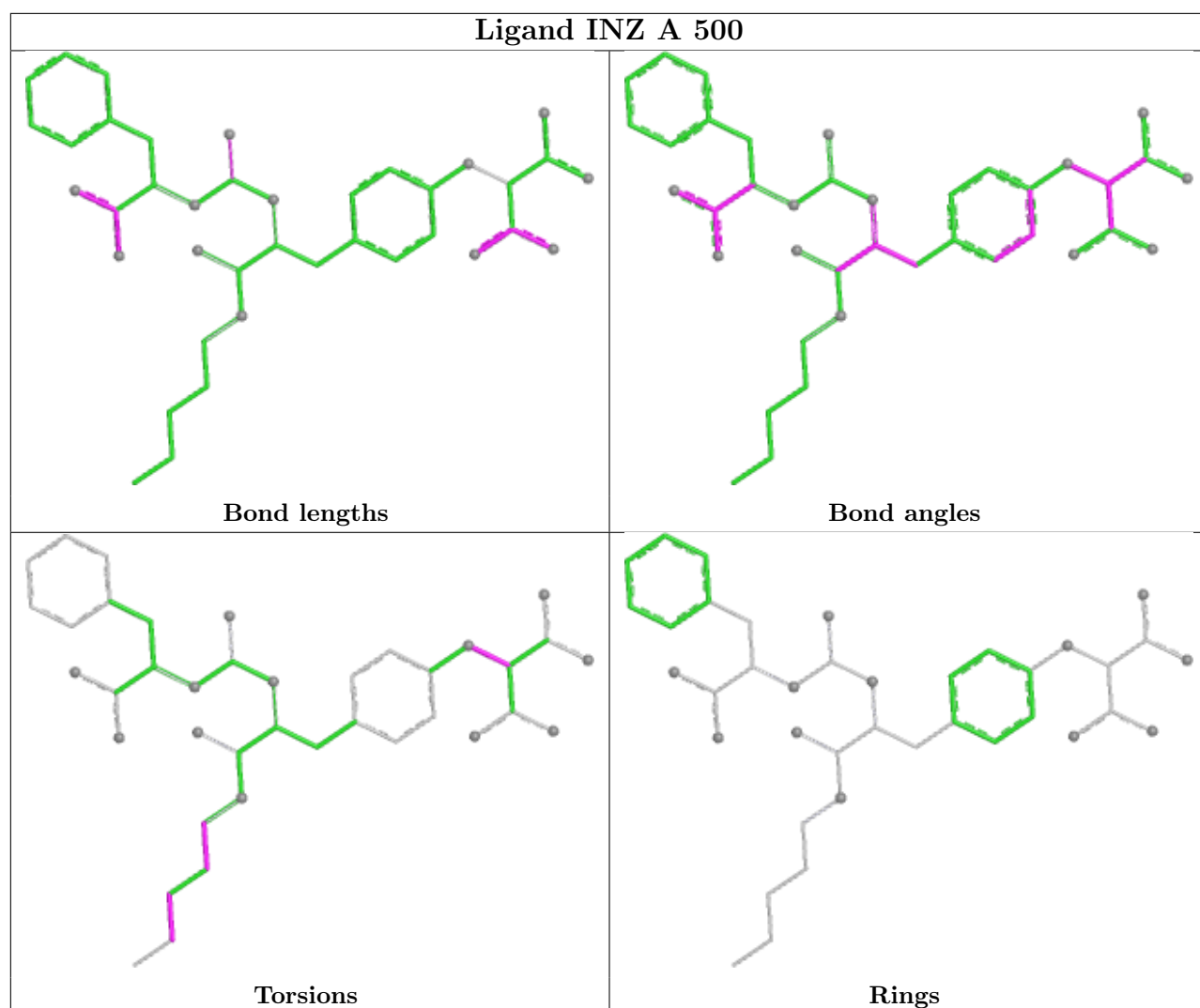
Mol	Chain	Res	Type	Atoms
2	A	500	INZ	C23-C24-C25-C26
2	A	500	INZ	N20-C22-C23-C24
2	A	500	INZ	C1-C10-O13-C4

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	500	INZ	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	297/298 (99%)	1.89	108 (36%) 1 0	8, 17, 60, 80	0

All (108) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	295	SER	8.4
1	A	239	LYS	7.9
1	A	294	LEU	7.8
1	A	182	PHE	6.9
1	A	296	HIS	6.8
1	A	297	GLU	6.6
1	A	14	GLY	6.5
1	A	284	ASP	6.5
1	A	291	TRP	6.5
1	A	13	SER	6.4
1	A	152	TYR	6.2
1	A	12	LYS	6.1
1	A	287	VAL	6.1
1	A	286	SER	6.0
1	A	186	GLU	5.9
1	A	241	PRO	5.9
1	A	184	VAL	5.7
1	A	289	ASP	5.7
1	A	179	TRP	5.6
1	A	7	PHE	5.4
1	A	280	PHE	5.4
1	A	298	ASP	5.3
1	A	285	SER	5.2
1	A	180	PRO	5.1
1	A	118	SER	5.0
1	A	63	ASP	5.0
1	A	240	ASP	5.0

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Mol	Chain	Res	Type	RSRZ
1	A	292	LYS	4.8
1	A	17	ALA	4.6
1	A	283	GLY	4.6
1	A	117	GLY	4.5
1	A	288	GLN	4.5
1	A	8	GLU	4.4
1	A	62	GLU	4.3
1	A	10	ILE	4.3
1	A	183	GLY	4.2
1	A	116	LYS	4.1
1	A	19	ILE	4.1
1	A	293	GLU	3.9
1	A	263	THR	3.9
1	A	15	SER	3.8
1	A	2	GLU	3.7
1	A	181	ASP	3.7
1	A	21	GLN	3.6
1	A	151	SER	3.6
1	A	281	ILE	3.6
1	A	242	SER	3.6
1	A	265	ASP	3.6
1	A	264	ALA	3.6
1	A	16	TRP	3.5
1	A	61	GLN	3.5
1	A	279	LYS	3.5
1	A	119	LEU	3.4
1	A	185	PRO	3.4
1	A	290	GLN	3.4
1	A	5	LYS	3.2
1	A	282	MET	3.2
1	A	188	PRO	3.2
1	A	4	GLU	3.2
1	A	191	PHE	3.1
1	A	165	THR	3.1
1	A	271	TYR	3.1
1	A	11	ASP	3.0
1	A	113	VAL	3.0
1	A	187	SER	3.0
1	A	166	GLN	3.0
1	A	268	ARG	3.0
1	A	248	LYS	2.9
1	A	18	ALA	2.9

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Mol	Chain	Res	Type	RSRZ
1	A	190	SER	2.9
1	A	9	GLN	2.9
1	A	112	ARG	2.8
1	A	22	ASP	2.8
1	A	269	PHE	2.7
1	A	163	LEU	2.7
1	A	20	TYR	2.7
1	A	220	GLY	2.7
1	A	272	LEU	2.7
1	A	226	CYS	2.6
1	A	23	ILE	2.6
1	A	168	THR	2.6
1	A	237	LYS	2.6
1	A	278	ALA	2.5
1	A	6	GLU	2.5
1	A	78	GLN	2.5
1	A	274	VAL	2.5
1	A	202	GLY	2.4
1	A	167	GLU	2.4
1	A	235	MET	2.4
1	A	33	ARG	2.4
1	A	207	GLU	2.4
1	A	32	CYS	2.4
1	A	178	THR	2.3
1	A	25	HIS	2.3
1	A	41	LYS	2.3
1	A	27	ALA	2.3
1	A	275	ILE	2.3
1	A	196	PHE	2.2
1	A	24	ARG	2.2
1	A	46	TYR	2.1
1	A	3	MET	2.1
1	A	48	ASP	2.1
1	A	176	TYR	2.1
1	A	195	LEU	2.1
1	A	224	THR	2.0
1	A	204	LEU	2.0
1	A	120	LYS	2.0
1	A	153	TYR	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](#)

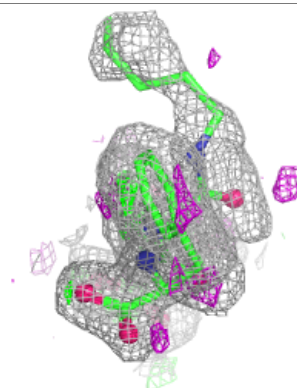
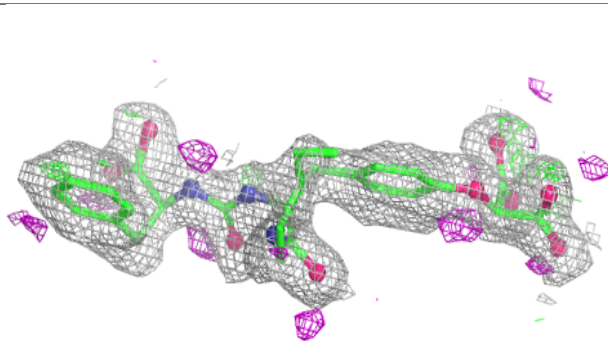
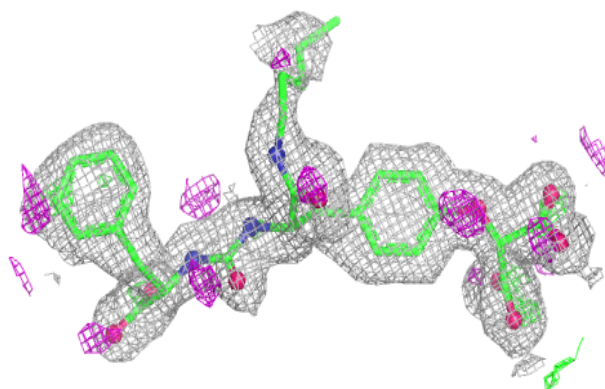
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists 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	INZ	A	500	39/39	0.82	0.18	12,24,40,42	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 INZ A 500:

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.