



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 01:54 AM UTC

PDB ID : 7GTV / pdb_00007gtv
Title : PanDDA Analysis group deposition – Crystal structure of PTP1B in complex with XST00000765c
Authors : Mehlman, T.; Ginn, H.M.; Keedy, D.A.
Deposited on : 2024-01-03
Resolution : 1.72 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

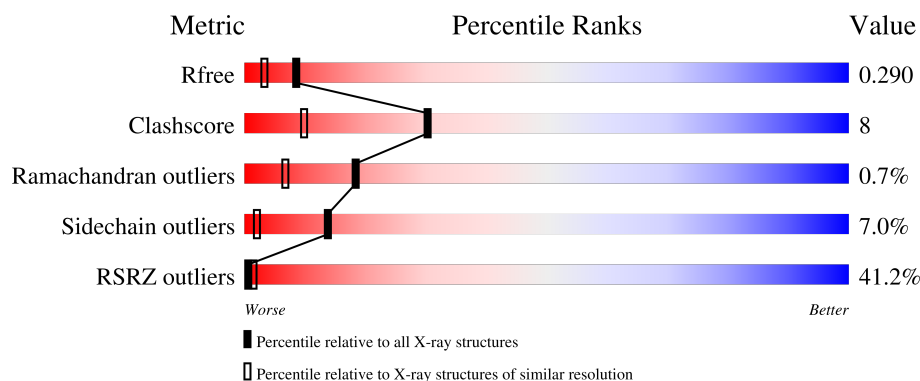
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.72 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	1039 (1.72-1.72)
Clashscore	190562	1049 (1.72-1.72)
Ramachandran outliers	187476	1041 (1.72-1.72)
Sidechain outliers	187428	1041 (1.72-1.72)
RSRZ outliers	180081	1039 (1.72-1.72)

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	321	36% 73% 12% • 12%

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
3	UJQ	A	402	-	-	-	X

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 4898 atoms, of which 2325 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 Tyrosine-protein phosphatase non-receptor type 1.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
			Total	C	H	N	O	S			
1	A	284	4621	1471	2304	399	432	15	0	0	0

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	32	SER	CYS	engineered mutation	UNP P18031
A	92	VAL	CYS	engineered mutation	UNP P18031

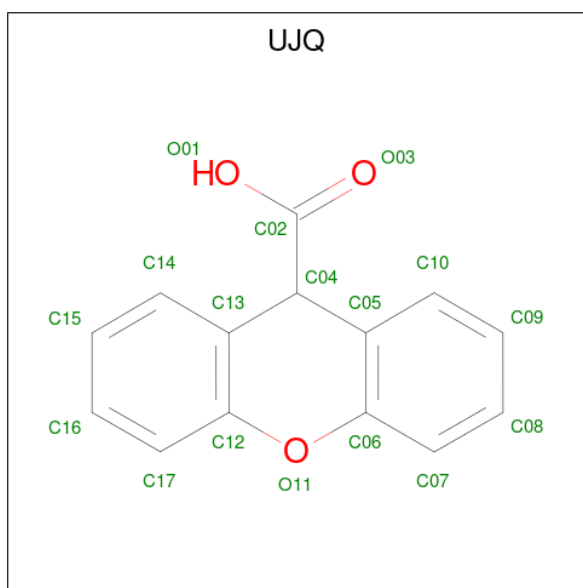
- Molecule 2 is 2-AMINO-2-HYDROXYMETHYL-PROPANE-1,3-DIOL (CCD ID: TRS) (formula: $C_4H_{12}NO_3$).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	H	N	O		
2	A	1	20	4	12	1	3	0	0

- Molecule 3 is 9 {H}-xanthene-9-carboxylic acid (CCD ID: UJQ) (formula: $C_{14}H_{10}O_3$)

(labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	A	1	Total	C	H	O	0	0
			26	14	9	3		

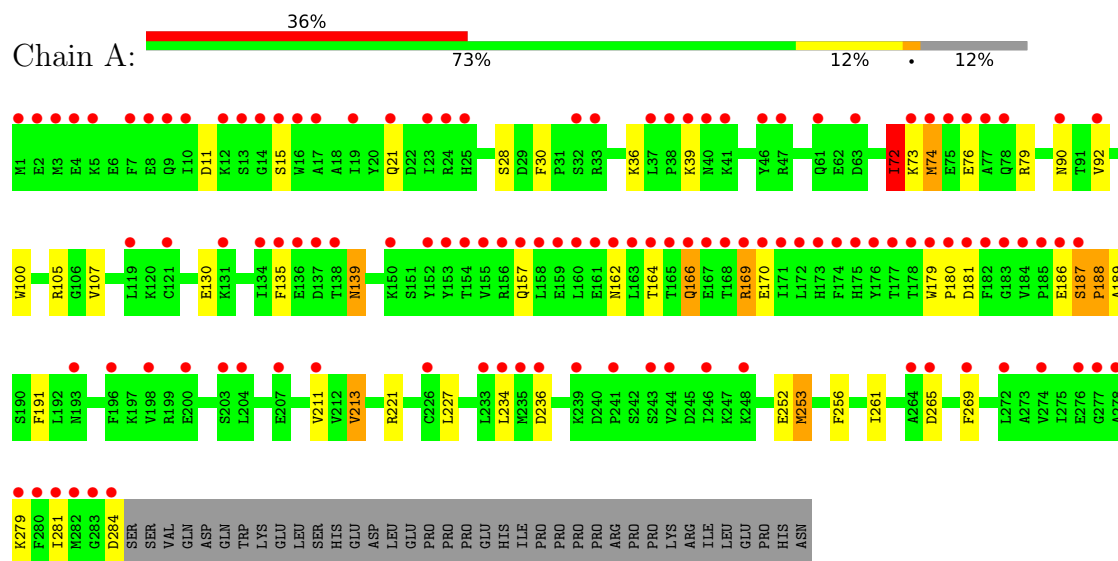
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	229	Total	O	0	4
			231	231		

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: Tyrosine-protein phosphatase non-receptor type 1



4 Data and refinement statistics

Property	Value	Source
Space group	P 31 2 1	Depositor
Cell constants a, b, c, α , β , γ	89.84Å 89.84Å 106.44Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	62.81 – 1.72 62.81 – 1.72	Depositor EDS
% Data completeness (in resolution range)	100.0 (62.81-1.72) 100.0 (62.81-1.72)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.21 (at 1.72Å)	Xtriage
Refinement program	REFMAC 5.8.0267	Depositor
R, R_{free}	0.204 , 0.236 0.270 , 0.290	Depositor DCC
R_{free} test set	2078 reflections (3.93%)	wwPDB-VP
Wilson B-factor (Å ²)	31.5	Xtriage
Anisotropy	0.004	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 43.9	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	0.026 for -h,-k,l	Xtriage
F_o, F_c correlation	0.90	EDS
Total number of atoms	4898	wwPDB-VP
Average B, all atoms (Å ²)	39.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.18% 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: UJQ, TRS

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	1.26	3/2369 (0.1%)	1.31	6/3192 (0.2%)

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	252	GLU	CD-OE2	-6.63	1.12	1.25
1	A	211	VAL	C-O	5.48	1.29	1.24
1	A	107	VAL	C-O	5.28	1.29	1.24

All (6) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	187	SER	CA-C-N	-10.58	109.45	119.82
1	A	187	SER	C-N-CA	-10.58	109.45	119.82
1	A	188	PRO	N-CA-C	-6.69	105.35	113.98
1	A	213	VAL	CA-CB-CG1	5.80	120.27	110.40
1	A	72	ILE	CA-CB-CG1	5.71	120.10	110.40
1	A	213	VAL	CA-CB-CG2	5.63	119.98	110.40

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	2317	2304	2296	39	2
2	A	8	12	12	0	2
3	A	17	9	0	0	0
4	A	231	0	0	13	0
All	All	2573	2325	2308	39	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 8.

All (39) 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:181:ASP:HB2	4:A:519:HOH:O	1.47	1.11
1:A:90:ASN:OD1	4:A:502[B]:HOH:O	1.84	0.96
1:A:36:LYS:HD2	4:A:507:HOH:O	1.67	0.94
1:A:74:MET:HG2	1:A:79:ARG:O	1.74	0.87
1:A:187:SER:OG	4:A:503:HOH:O	1.95	0.84
1:A:180:PRO:C	1:A:221:ARG:NH2	2.35	0.84
1:A:186:GLU:C	4:A:504:HOH:O	2.21	0.82
1:A:186:GLU:O	4:A:504:HOH:O	1.97	0.81
1:A:180:PRO:C	1:A:221:ARG:HH21	1.89	0.81
1:A:72:ILE:HG22	1:A:74:MET:SD	2.25	0.76
1:A:100:TRP:CZ2	1:A:162:ASN:HB2	2.21	0.75
1:A:181:ASP:HA	1:A:221:ARG:HH21	1.57	0.70
1:A:187:SER:O	1:A:188:PRO:C	2.30	0.70
1:A:187:SER:O	1:A:189:ALA:N	2.26	0.67
1:A:36:LYS:CD	4:A:507:HOH:O	2.32	0.67
1:A:179:TRP:CZ3	1:A:191:PHE:CE1	2.84	0.66
1:A:227:LEU:HB2	1:A:253:MET:HE1	1.79	0.63
1:A:36:LYS:NZ	4:A:507:HOH:O	2.28	0.60
1:A:181:ASP:N	1:A:221:ARG:HH21	1.98	0.59
1:A:92:VAL:HG12	1:A:135:PHE:CE1	2.37	0.59
1:A:181:ASP:CA	1:A:221:ARG:HH21	2.14	0.59
1:A:181:ASP:N	1:A:221:ARG:NH2	2.52	0.57
1:A:186:GLU:HA	4:A:583:HOH:O	2.04	0.57
1:A:187:SER:C	1:A:189:ALA:N	2.60	0.56
1:A:105:ARG:HG2	1:A:105:ARG:HH11	1.70	0.55
1:A:169:ARG:HA	4:A:571:HOH:O	2.07	0.54
1:A:279:LYS:O	1:A:284:ASP:HB3	2.08	0.53
1:A:181:ASP:HA	1:A:221:ARG:NH2	2.23	0.52
1:A:187:SER:C	1:A:189:ALA:H	2.17	0.51
1:A:39:LYS:HE3	4:A:601:HOH:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:187:SER:O	4:A:505:HOH:O	2.22	0.42
1:A:21:GLN:HG2	4:A:578:HOH:O	2.19	0.42
1:A:74:MET:HE1	1:A:253:MET:CG	2.49	0.42
1:A:28:SER:HB3	1:A:30:PHE:CE2	2.55	0.42
1:A:139:ASN:HD22	1:A:139:ASN:HA	1.74	0.42
1:A:188:PRO:HA	1:A:269:PHE:CZ	2.55	0.41
1:A:179:TRP:CZ3	1:A:191:PHE:HE1	2.35	0.40
1:A:72:ILE:HD12	1:A:256:PHE:CB	2.51	0.40
1:A:74:MET:HE1	1:A:253:MET:HG3	2.02	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)
1:A:130:GLU:OE2	2:A:401:TRS:O2[4_565]	1.68	0.52
1:A:130:GLU:OE2	2:A:401:TRS:HO2[4_565]	1.33	0.27

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	282/321 (88%)	268 (95%)	12 (4%)	2 (1%)	18 7

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	166	GLN
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	257/294 (87%)	239 (93%)	18 (7%)	14 2

All (18) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	11	ASP
1	A	15	SER
1	A	72	ILE
1	A	73	LYS
1	A	74	MET
1	A	76	GLU
1	A	139	ASN
1	A	157	GLN
1	A	164	THR
1	A	166	GLN
1	A	169	ARG
1	A	170	GLU
1	A	213	VAL
1	A	234	LEU
1	A	236	ASP
1	A	253	MET
1	A	265	ASP
1	A	281	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	139	ASN

5.3.3 RNA [i](#)

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 ⓘ

2 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
3	UJQ	A	402	-	19,19,19	1.30	1 (5%)	27,27,27	1.34	3 (11%)
2	TRS	A	401	-	7,7,7	0.98	0	9,9,9	0.93	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	UJQ	A	402	-	-	0/4/16/16	0/3/3/3
2	TRS	A	401	-	-	6/9/9/9	-

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	402	UJQ	C04-C02	3.05	1.55	1.52

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	402	UJQ	C05-C04-C13	4.50	115.37	106.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	402	UJQ	O03-C02-C04	-2.20	116.39	123.08
3	A	402	UJQ	C13-C04-C02	-2.09	105.32	110.68

There are no chirality outliers.

All (6) torsion outliers are listed below:

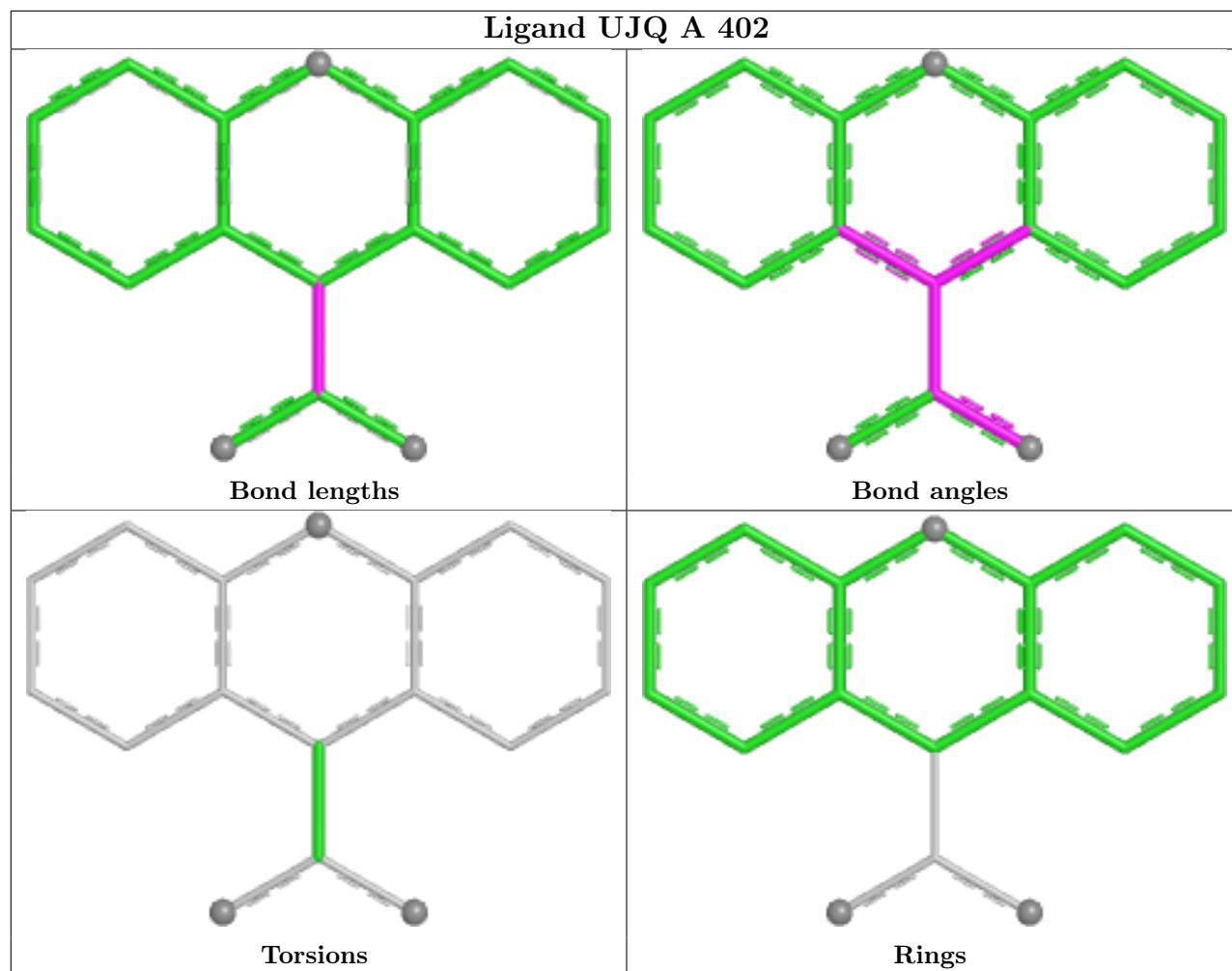
Mol	Chain	Res	Type	Atoms
2	A	401	TRS	C1-C-C2-O2
2	A	401	TRS	N-C-C2-O2
2	A	401	TRS	C3-C-C1-O1
2	A	401	TRS	N-C-C1-O1
2	A	401	TRS	C3-C-C2-O2
2	A	401	TRS	C2-C-C1-O1

There are no ring outliers.

1 monomer is involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	401	TRS	0	2

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	284/321 (88%)	4.07	117 (41%) 0 1	10, 30, 69, 108	47 (16%)

All (117) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	163	LEU	27.0
1	A	179	TRP	24.5
1	A	184	VAL	22.8
1	A	180	PRO	22.5
1	A	164	THR	22.5
1	A	182	PHE	21.6
1	A	165	THR	21.1
1	A	183	GLY	21.0
1	A	178	THR	20.8
1	A	153	TYR	19.7
1	A	168	THR	19.6
1	A	177	THR	19.6
1	A	155	VAL	19.1
1	A	174	PHE	18.9
1	A	152	TYR	18.8
1	A	185	PRO	18.5
1	A	166	GLN	18.1
1	A	176	TYR	18.0
1	A	160	LEU	17.9
1	A	162	ASN	17.7
1	A	187	SER	17.6
1	A	171	ILE	17.6
1	A	77	ALA	16.9
1	A	269	PHE	16.8
1	A	234	LEU	16.8
1	A	167	GLU	16.4
1	A	172	LEU	16.4

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Mol	Chain	Res	Type	RSRZ
1	A	154	THR	16.3
1	A	74	MET	16.3
1	A	161	GLU	16.2
1	A	158	LEU	16.1
1	A	76	GLU	15.2
1	A	169	ARG	15.1
1	A	173	HIS	14.6
1	A	175	HIS	14.2
1	A	157	GLN	14.1
1	A	75	GLU	13.7
1	A	181	ASP	13.5
1	A	78	GLN	13.4
1	A	156	ARG	13.2
1	A	236	ASP	12.9
1	A	73	LYS	12.2
1	A	159	GLU	11.6
1	A	281	ILE	10.7
1	A	170	GLU	10.7
1	A	186	GLU	9.9
1	A	280	PHE	8.9
1	A	265	ASP	7.5
1	A	284	ASP	7.0
1	A	10	ILE	6.9
1	A	200	GLU	6.9
1	A	282	MET	5.9
1	A	204	LEU	5.6
1	A	5	LYS	5.5
1	A	9	GLN	5.1
1	A	1	MET	4.7
1	A	226	CYS	4.6
1	A	12	LYS	4.5
1	A	63	ASP	4.5
1	A	7	PHE	4.3
1	A	16	TRP	4.2
1	A	25	HIS	3.8
1	A	279	LYS	3.8
1	A	137	ASP	3.8
1	A	8	GLU	3.8
1	A	2	GLU	3.7
1	A	90	ASN	3.7
1	A	278	ALA	3.6
1	A	24	ARG	3.6

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Mol	Chain	Res	Type	RSRZ
1	A	119	LEU	3.6
1	A	277	GLY	3.5
1	A	92	VAL	3.4
1	A	41	LYS	3.3
1	A	135	PHE	3.3
1	A	272	LEU	3.3
1	A	39	LYS	3.3
1	A	61	GLN	3.3
1	A	283	GLY	3.2
1	A	244	VAL	3.2
1	A	23	ILE	3.1
1	A	136	GLU	3.1
1	A	3	MET	3.0
1	A	13	SER	2.9
1	A	233	LEU	2.8
1	A	243	SER	2.8
1	A	246	ILE	2.8
1	A	235	MET	2.8
1	A	264	ALA	2.8
1	A	207	GLU	2.8
1	A	134	ILE	2.8
1	A	211	VAL	2.7
1	A	193	ASN	2.7
1	A	150	LYS	2.6
1	A	121	CYS	2.6
1	A	274	VAL	2.6
1	A	14	GLY	2.6
1	A	32	SER	2.6
1	A	21	GLN	2.6
1	A	138	THR	2.5
1	A	38	PRO	2.4
1	A	47	ARG	2.4
1	A	203	SER	2.4
1	A	17	ALA	2.3
1	A	196	PHE	2.3
1	A	4	GLU	2.2
1	A	33	ARG	2.2
1	A	131	LYS	2.2
1	A	40	ASN	2.2
1	A	46	TYR	2.2
1	A	198	VAL	2.1
1	A	276	GLU	2.1

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Mol	Chain	Res	Type	RSRZ
1	A	15	SER	2.1
1	A	37	LEU	2.1
1	A	248	LYS	2.1
1	A	239	LYS	2.0
1	A	241	PRO	2.0
1	A	19	ILE	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](#)

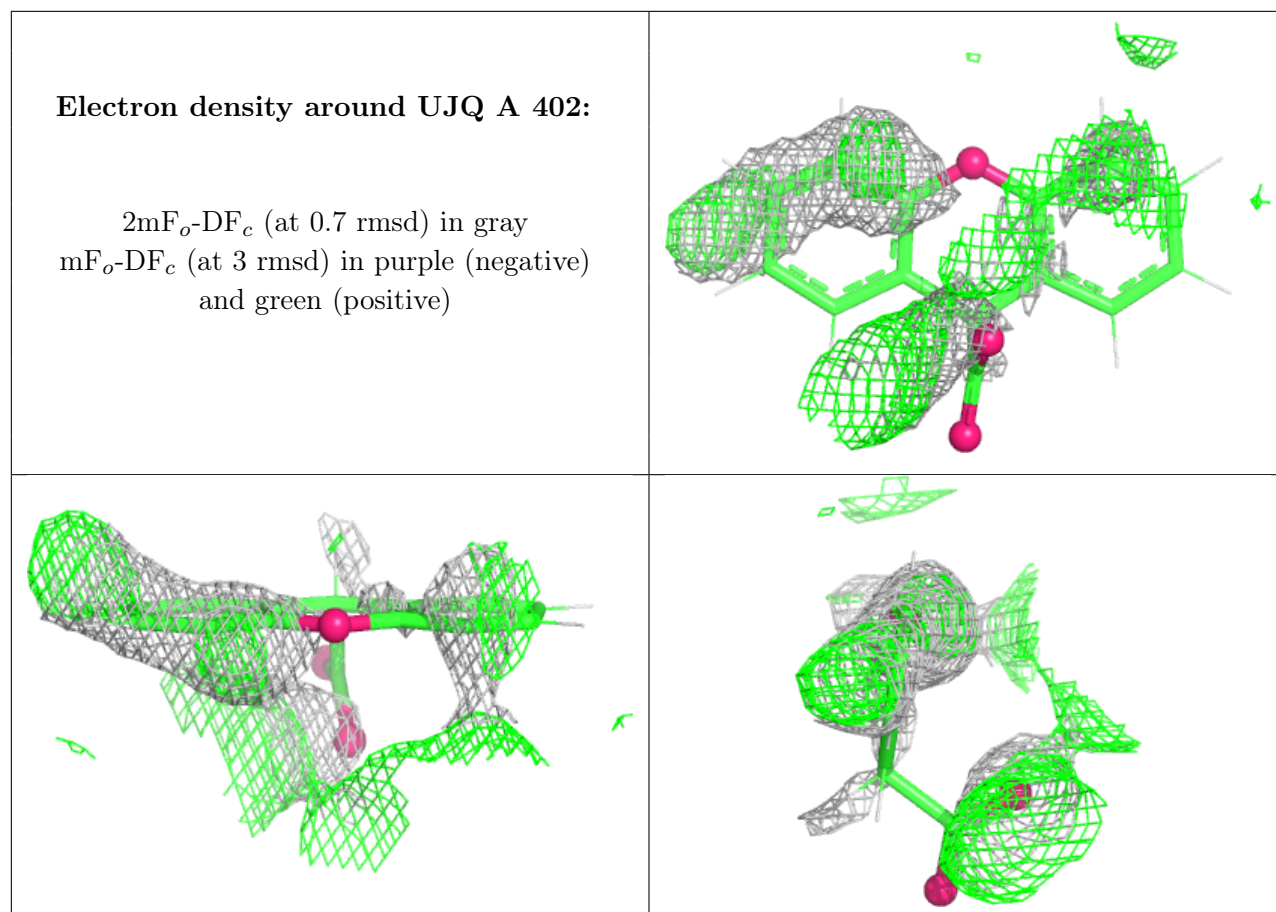
There are no oligosaccharides in this entry.

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
3	UJQ	A	402	17/17	0.45	0.65	32,39,41,49	26
2	TRS	A	401	8/8	0.78	0.19	26,44,52,56	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.