



Full wwPDB X-ray Structure Validation Report ⓘ

Apr 18, 2022 – 06:22 PM JST

PDB ID : 7VHY
Title : Crystal structure of EP300 HAT domain in complex with compound (+)-3
Authors : Takahashi, M.; Hanzawa, H.
Deposited on : 2021-09-24
Resolution : 2.30 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 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 : 2.27
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) : 2.27

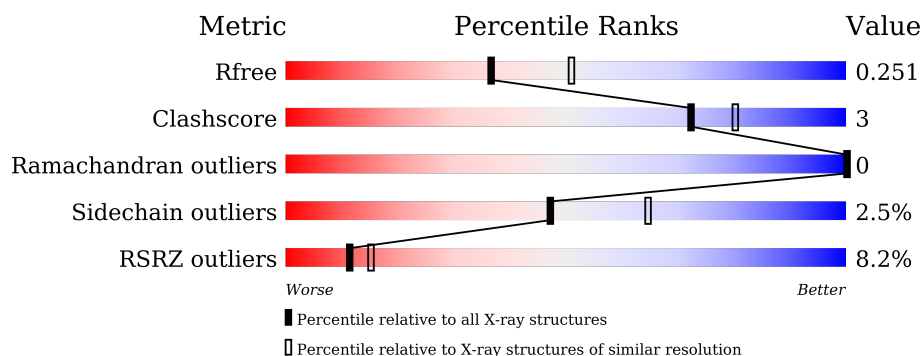
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.30 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	5042 (2.30-2.30)
Clashscore	141614	5643 (2.30-2.30)
Ramachandran outliers	138981	5575 (2.30-2.30)
Sidechain outliers	138945	5575 (2.30-2.30)
RSRZ outliers	127900	4938 (2.30-2.30)

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	454	
1	B	454	

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 7299 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 Histone acetyltransferase p300.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	437	Total	C	N	O	S	0	0	0
			3465	2204	598	635	28			
1	B	439	Total	C	N	O	S	0	0	0
			3486	2219	599	640	28			

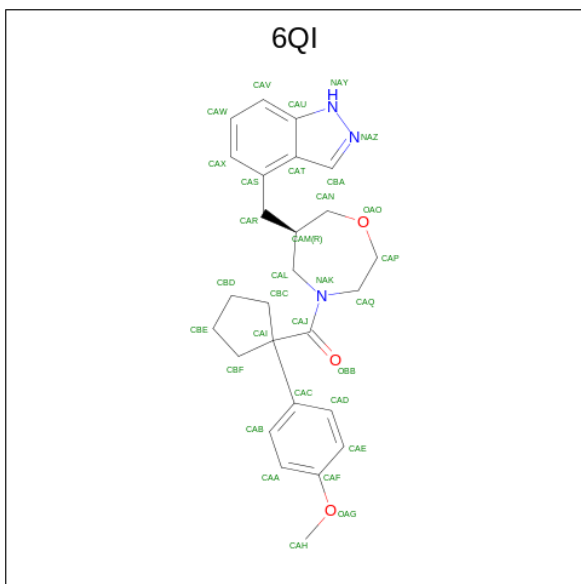
There are 16 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1157	GLY	-	expression tag	UNP Q09472
A	1158	PRO	-	expression tag	UNP Q09472
A	1467	PHE	TYR	engineered mutation	UNP Q09472
A	1520	SER	-	linker	UNP Q09472
A	1521	GLY	-	linker	UNP Q09472
A	1578	GLY	-	linker	UNP Q09472
A	1579	SER	-	linker	UNP Q09472
A	1580	GLY	-	linker	UNP Q09472
B	1157	GLY	-	expression tag	UNP Q09472
B	1158	PRO	-	expression tag	UNP Q09472
B	1467	PHE	TYR	engineered mutation	UNP Q09472
B	1520	SER	-	linker	UNP Q09472
B	1521	GLY	-	linker	UNP Q09472
B	1578	GLY	-	linker	UNP Q09472
B	1579	SER	-	linker	UNP Q09472
B	1580	GLY	-	linker	UNP Q09472

- Molecule 2 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	3	Total	Zn	0	0
			3	3		
2	B	3	Total	Zn	0	0
			3	3		

- Molecule 3 is [(6R)-6-(1H-indazol-4-ylmethyl)-1,4-oxazepan-4-yl]-[1-(4-methoxyphenyl)cyclopentyl]methanone (three-letter code: 6QI) (formula: C₂₆H₃₁N₃O₃) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	A	1	Total	C	N	O	0	0
			32	26	3	3		

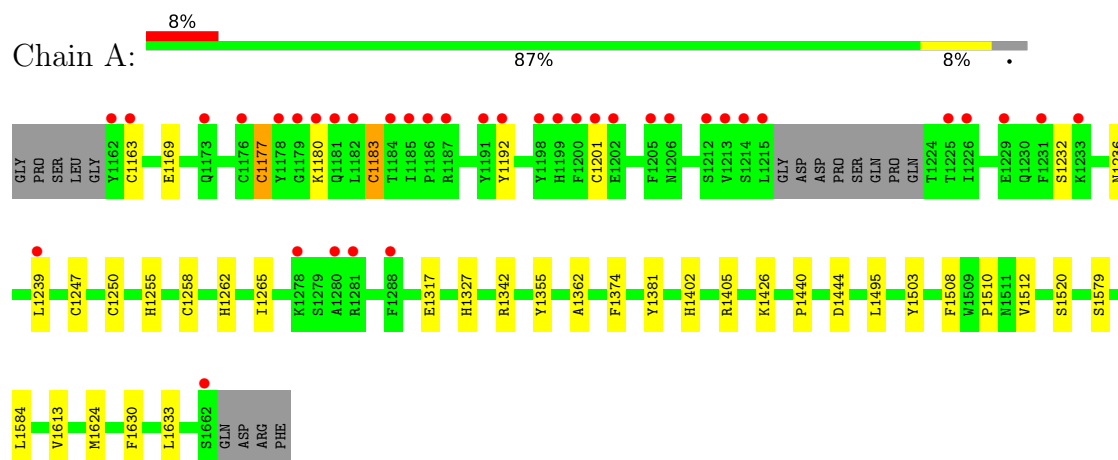
- Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	210	Total O 210 210	0	0
4	B	100	Total O 100 100	0	0

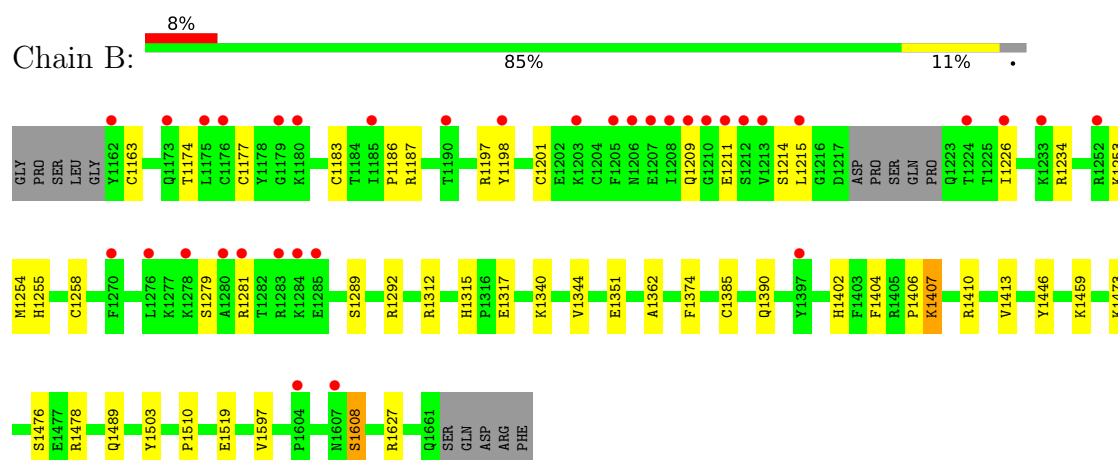
3 Residue-property plots [i](#)

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: Histone acetyltransferase p300



• Molecule 1: Histone acetyltransferase p300



4 Data and refinement statistics

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	44.49Å 88.78Å 89.95Å 116.58° 99.44° 85.30°	Depositor
Resolution (Å)	19.90 – 2.30 44.15 – 2.30	Depositor EDS
% Data completeness (in resolution range)	94.4 (19.90-2.30) 94.1 (44.15-2.30)	Depositor EDS
R_{merge}	0.11	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.18 (at 2.29Å)	Xtriage
Refinement program	PHENIX 1.19_4092	Depositor
R, R_{free}	0.212 , 0.250 0.214 , 0.251	Depositor DCC
R_{free} test set	2593 reflections (5.09%)	wwPDB-VP
Wilson B-factor (Å ²)	39.7	Xtriage
Anisotropy	0.082	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 42.9	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	7299	wwPDB-VP
Average B, all atoms (Å ²)	54.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.18% 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 [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: 6QI, ZN

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	0.25	0/3557	0.48	0/4816
1	B	0.26	0/3579	0.49	0/4847
All	All	0.26	0/7136	0.48	0/9663

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 [i](#)

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	3465	0	3308	21	0
1	B	3486	0	3317	27	0
2	A	3	0	0	0	0
2	B	3	0	0	0	0
3	A	32	0	0	1	0
4	A	210	0	0	0	0
4	B	100	0	0	0	0
All	All	7299	0	6625	46	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 (46) 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:1247:CYS:SG	1:A:1250:CYS:HB2	2.28	0.73
1:A:1177:CYS:SG	1:A:1183:CYS:HB3	2.31	0.70
1:B:1279:SER:HB3	1:B:1281:ARG:NH1	2.12	0.65
1:B:1197:ARG:NH2	1:B:1198:TYR:OH	2.33	0.62
1:B:1215:LEU:HD12	1:B:1226:ILE:HD13	1.82	0.62
1:B:1163:CYS:HB3	1:B:1254:MET:SD	2.42	0.60
1:B:1174:THR:HG22	1:B:1186:PRO:HA	1.86	0.58
1:A:1169:GLU:HG3	1:A:1239:LEU:HB3	1.85	0.57
1:A:1508:PHE:CZ	1:A:1512:VAL:HG21	2.40	0.57
1:A:1613:VAL:HG11	1:B:1312:ARG:HD2	1.87	0.56
1:B:1608:SER:O	1:B:1608:SER:OG	2.24	0.55
1:A:1362:ALA:HB3	1:A:1374:PHE:HB3	1.88	0.55
1:B:1473:LYS:HA	1:B:1476:SER:HB2	1.91	0.53
1:B:1315:HIS:CG	1:B:1406:PRO:HG3	2.44	0.52
1:A:1192:TYR:HA	1:A:1232:SER:O	2.10	0.52
1:B:1404:PHE:HB3	1:B:1410:ARG:HG3	1.91	0.51
1:B:1404:PHE:CZ	1:B:1413:VAL:HG21	2.47	0.50
1:B:1385:CYS:O	1:B:1390:GLN:HB3	2.12	0.50
1:A:1255:HIS:HB2	1:A:1258:CYS:HB2	1.93	0.50
1:A:1177:CYS:HB2	1:A:1201:CYS:SG	2.52	0.49
1:B:1177:CYS:HB3	1:B:1183:CYS:HB3	1.95	0.48
1:A:1520:SER:HB2	1:A:1579:SER:HB3	1.96	0.47
1:B:1209:GLN:H	1:B:1209:GLN:CD	2.17	0.46
1:B:1211:GLU:N	1:B:1211:GLU:OE1	2.49	0.46
1:A:1503:TYR:CZ	1:A:1510:PRO:HB3	2.52	0.45
1:A:1495:LEU:CD2	1:A:1584:LEU:HD21	2.47	0.45
1:A:1317:GLU:HB3	1:A:1405:ARG:HD3	1.98	0.45
1:B:1281:ARG:HH11	1:B:1281:ARG:HG3	1.82	0.44
1:B:1362:ALA:HB3	1:B:1374:PHE:HB3	1.99	0.44
1:B:1407:LYS:HB3	1:B:1407:LYS:HE3	1.73	0.44
1:A:1508:PHE:CE2	1:A:1512:VAL:HG21	2.52	0.44
1:A:1440:PRO:HG3	3:A:1704:6QI:CBA	2.47	0.44
1:B:1255:HIS:HB2	1:B:1258:CYS:HB2	1.99	0.44
1:A:1624:MET:HE2	1:A:1630:PHE:HB2	2.00	0.43
1:B:1503:TYR:CZ	1:B:1510:PRO:HB3	2.53	0.42
1:A:1327:HIS:HB2	1:A:1624:MET:HB2	2.01	0.42
1:B:1279:SER:HB3	1:B:1281:ARG:HH11	1.82	0.42
1:B:1289:SER:OG	1:B:1292:ARG:HG3	2.20	0.42
1:A:1262:HIS:HB3	1:A:1265:ILE:HG13	2.01	0.41
1:A:1355:TYR:HB3	1:A:1381:TYR:CE2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1426:LYS:O	1:B:1478:ARG:NH2	2.54	0.41
1:B:1340:LYS:HA	1:B:1344:VAL:HB	2.03	0.41
1:B:1446:TYR:O	1:B:1627:ARG:HD2	2.20	0.41
1:B:1315:HIS:CE1	1:B:1317:GLU:HB2	2.55	0.41
1:A:1180:LYS:HD2	1:A:1180:LYS:HA	1.72	0.40
1:B:1489:GLN:HG2	1:B:1597:VAL:HG11	2.03	0.40

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	433/454 (95%)	424 (98%)	9 (2%)	0	100	100
1	B	435/454 (96%)	425 (98%)	10 (2%)	0	100	100
All	All	868/908 (96%)	849 (98%)	19 (2%)	0	100	100

There are no Ramachandran outliers to report.

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	373/407 (92%)	365 (98%)	8 (2%)	53	70
1	B	374/407 (92%)	363 (97%)	11 (3%)	42	58

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
All	All	747/814 (92%)	728 (98%)	19 (2%)	47 65

All (19) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1163	CYS
1	A	1177	CYS
1	A	1183	CYS
1	A	1236	ASN
1	A	1342	ARG
1	A	1402	HIS
1	A	1444	ASP
1	A	1633	LEU
1	B	1187	ARG
1	B	1201	CYS
1	B	1214	SER
1	B	1234	ARG
1	B	1253	LYS
1	B	1351	GLU
1	B	1402	HIS
1	B	1407	LYS
1	B	1459	LYS
1	B	1519	GLU
1	B	1608	SER

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	1236	ASN

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 [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 7 ligands modelled in this entry, 6 are monoatomic - leaving 1 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	$\# Z > 2$
3	6QI	A	1704	-	34,36,36	3.29	9 (26%)	30,51,51	1.41	4 (13%)

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	6QI	A	1704	-	-	6/22/42/42	0/4/5/5

All (9) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	1704	6QI	NAZ-NAY	-13.36	1.11	1.37
3	A	1704	6QI	CAI-CAC	-8.42	1.40	1.53
3	A	1704	6QI	CAV-CAU	-5.10	1.33	1.41
3	A	1704	6QI	CAR-CAS	-4.47	1.39	1.51
3	A	1704	6QI	CAT-CAU	-3.89	1.32	1.42
3	A	1704	6QI	CBA-CAT	-3.78	1.32	1.40
3	A	1704	6QI	CAS-CAT	-3.77	1.33	1.42
3	A	1704	6QI	CBC-CAI	-3.53	1.50	1.55
3	A	1704	6QI	CBF-CAI	-2.38	1.51	1.55

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	1704	6QI	CAI-CAJ-NAK	3.54	123.46	118.60
3	A	1704	6QI	CBC-CAI-CAC	-3.51	107.54	113.28
3	A	1704	6QI	CAH-OAG-CAF	-3.42	110.10	117.51
3	A	1704	6QI	CBD-CBC-CAI	2.63	108.05	104.85

There are no chirality outliers.

All (6) torsion outliers are listed below:

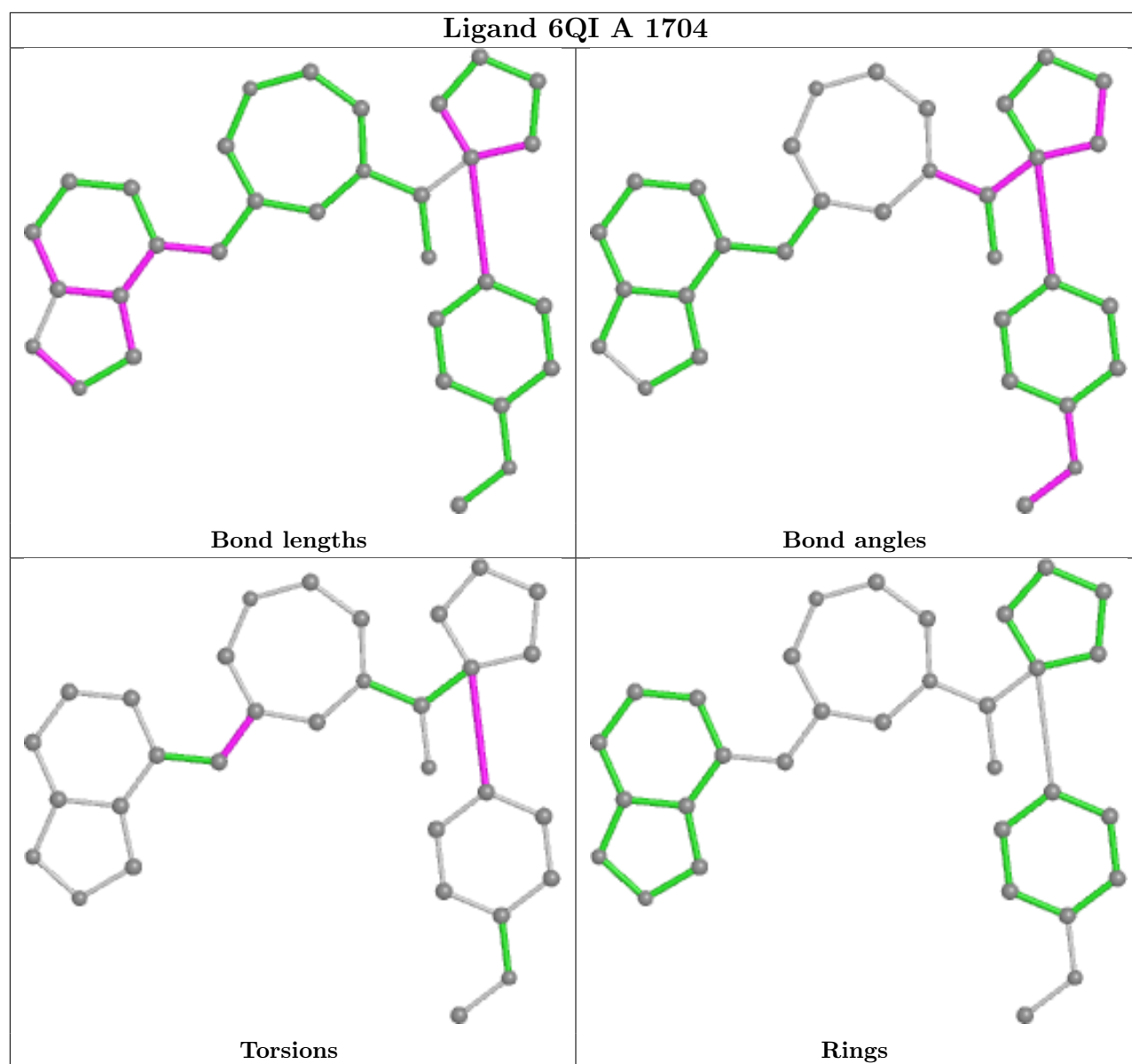
Mol	Chain	Res	Type	Atoms
3	A	1704	6QI	CAN-CAM-CAR-CAS
3	A	1704	6QI	CAB-CAC-CAI-CBC
3	A	1704	6QI	CAD-CAC-CAI-CBC
3	A	1704	6QI	CAB-CAC-CAI-CAJ
3	A	1704	6QI	CAD-CAC-CAI-CAJ
3	A	1704	6QI	CAL-CAM-CAR-CAS

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	1704	6QI	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	437/454 (96%)	0.42	37 (8%) 10 14	25, 42, 103, 127	0
1	B	439/454 (96%)	0.36	35 (7%) 12 16	33, 56, 97, 123	0
All	All	876/908 (96%)	0.39	72 (8%) 11 15	25, 49, 101, 127	0

All (72) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	1213	VAL	5.7
1	A	1176	CYS	4.9
1	A	1184	THR	4.7
1	B	1213	VAL	4.6
1	B	1215	LEU	4.5
1	B	1280	ALA	4.3
1	B	1208	ILE	4.2
1	A	1192	TYR	4.1
1	A	1173	GLN	4.1
1	A	1280	ALA	4.1
1	A	1205	PHE	4.0
1	A	1181	GLN	4.0
1	A	1215	LEU	3.9
1	B	1276	LEU	3.9
1	B	1209	GLN	3.8
1	A	1185	ILE	3.7
1	A	1179	GLY	3.4
1	A	1281	ARG	3.4
1	A	1225	THR	3.4
1	A	1180	LYS	3.4
1	B	1397	TYR	3.3
1	A	1206	ASN	3.3
1	A	1200	PHE	3.2
1	A	1226	ILE	3.1

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Mol	Chain	Res	Type	RSRZ
1	B	1176	CYS	3.1
1	B	1205	PHE	3.1
1	A	1198	TYR	3.0
1	A	1199	HIS	3.0
1	A	1186	PRO	3.0
1	A	1229	GLU	3.0
1	A	1288	PHE	2.8
1	B	1162	TYR	2.8
1	B	1207	GLU	2.8
1	B	1173	GLN	2.8
1	B	1211	GLU	2.8
1	B	1210	GLY	2.8
1	B	1283	ARG	2.7
1	B	1175	LEU	2.7
1	A	1231	PHE	2.7
1	A	1212	SER	2.7
1	B	1206	ASN	2.7
1	B	1179	GLY	2.7
1	B	1604	PRO	2.6
1	B	1203	LYS	2.6
1	B	1281	ARG	2.5
1	A	1278	LYS	2.5
1	B	1185	ILE	2.5
1	A	1182	LEU	2.4
1	B	1607	ASN	2.4
1	A	1187	ARG	2.4
1	A	1233	LYS	2.4
1	B	1278	LYS	2.4
1	A	1239	LEU	2.3
1	A	1162	TYR	2.3
1	B	1212	SER	2.2
1	B	1226	ILE	2.2
1	A	1178	TYR	2.2
1	B	1190	THR	2.2
1	B	1270	PHE	2.2
1	A	1191	TYR	2.2
1	A	1201	CYS	2.2
1	B	1285	GLU	2.2
1	B	1284	LYS	2.1
1	A	1163	CYS	2.1
1	A	1214	SER	2.1
1	B	1180	LYS	2.1

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Mol	Chain	Res	Type	RSRZ
1	A	1662	SER	2.1
1	B	1224	THR	2.1
1	B	1198	TYR	2.1
1	A	1202	GLU	2.1
1	B	1252	ARG	2.0
1	B	1233	LYS	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](#)

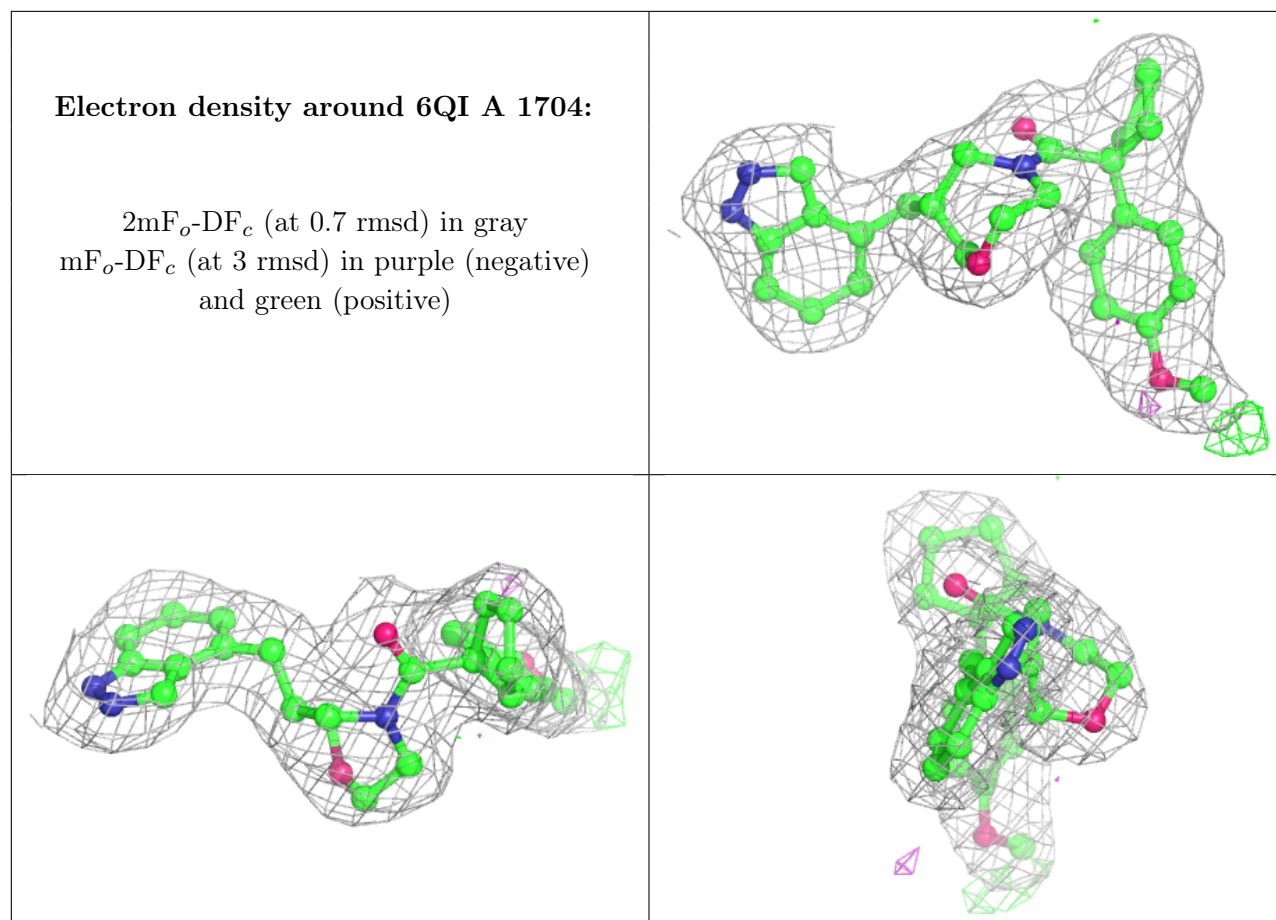
There are no monosaccharides in this entry.

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(\AA^2)	Q<0.9
2	ZN	A	1703	1/1	0.79	0.06	127,127,127,127	0
2	ZN	A	1702	1/1	0.88	0.04	93,93,93,93	0
2	ZN	B	1702	1/1	0.90	0.07	91,91,91,91	0
2	ZN	B	1703	1/1	0.91	0.04	91,91,91,91	0
3	6QI	A	1704	32/32	0.95	0.17	27,34,38,40	0
2	ZN	A	1701	1/1	0.96	0.12	66,66,66,66	0
2	ZN	B	1701	1/1	0.97	0.08	54,54,54,54	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 ⓘ

There are no such residues in this entry.