



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 7, 2026 – 01:36 AM UTC

PDB ID : 7AWQ / pdb_00007awq
Title : Structure of the thermostabilized EAAT1 cryst-E386Q mutant in complex with L-ASP, sodium ions and the allosteric inhibitor UCPH101
Authors : Canul-Tec, J.C.; Legrand, P.; Reyes, N.
Deposited on : 2020-11-08
Resolution : 3.65 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

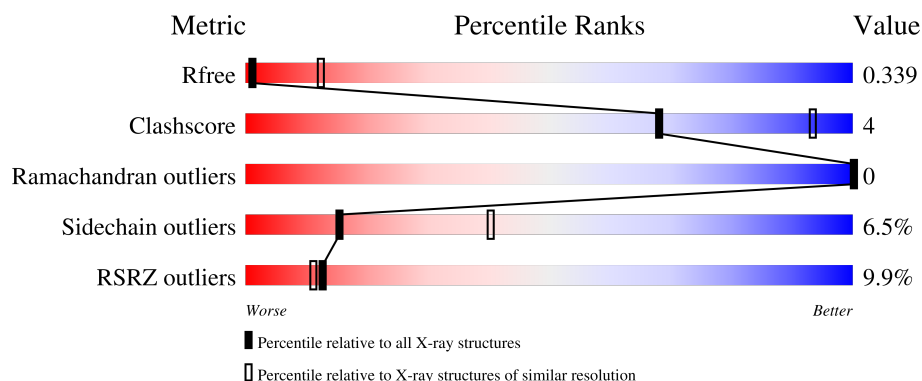
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.65 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	1062 (3.78-3.54)
Clashscore	190562	1009 (3.76-3.56)
Ramachandran outliers	187476	1054 (3.78-3.54)
Sidechain outliers	187428	1052 (3.78-3.54)
RSRZ outliers	180081	1061 (3.78-3.54)

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	522	

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 3118 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 Excitatory amino acid transporter 1,Neutral amino acid transporter B(0),Excitatory amino acid transporter 1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	404	Total	C	N	O	S	0	0	0
			3074	2022	498	537	17			

There are 73 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	23	SER	ARG	conflict	UNP P43003
A	44	PHE	TYR	conflict	UNP P43003
A	46	ARG	PHE	conflict	UNP P43003
A	50	LEU	PHE	conflict	UNP P43003
A	51	LEU	VAL	conflict	UNP P43003
A	56	LEU	THR	conflict	UNP P43003
A	60	LEU	VAL	conflict	UNP P43003
A	62	VAL	THR	conflict	UNP P43003
A	63	VAL	ILE	conflict	UNP P43003
A	67	LEU	THR	conflict	UNP P43003
A	72	PRO	ARG	conflict	UNP P43003
A	73	LEU	MET	conflict	UNP P43003
A	75	PRO	TYR	conflict	UNP P43003
A	82	ALA	SER	conflict	UNP P43003
A	93	LYS	GLN	conflict	UNP P43003
A	96	ILE	VAL	conflict	UNP P43003
A	101	VAL	ILE	conflict	UNP P43003
A	105	ILE	VAL	conflict	UNP P43003
A	108	LEU	MET	conflict	UNP P43003
A	110	SER	ALA	conflict	UNP P43003
A	113	ALA	SER	conflict	UNP P43003
A	118	ARG	LYS	conflict	UNP P43003
A	119	LEU	MET	conflict	UNP P43003
A	129	SER	THR	conflict	UNP P43003
A	137	LEU	ILE	conflict	UNP P43003
A	141	LEU	ILE	conflict	UNP P43003

Continued on next page...

Continued from previous page...

Chain	Residue	Modelled	Actual	Comment	Reference
A	143	LEU	ILE	conflict	UNP P43003
A	155	THR	ASN	conflict	UNP Q15758
A	175	CYS	SER	conflict	UNP Q15758
A	204	THR	ASN	conflict	UNP Q15758
A	232	VAL	CYS	conflict	UNP P43003
A	236	ALA	VAL	conflict	UNP P43003
A	237	LEU	ILE	conflict	UNP P43003
A	239	LYS	ASN	conflict	UNP P43003
A	241	GLY	LYS	conflict	UNP P43003
A	246	LEU	ALA	conflict	UNP P43003
A	248	VAL	ARG	conflict	UNP P43003
A	249	ASP	GLU	conflict	UNP P43003
A	252	ASN	ASP	conflict	UNP P43003
A	258	THR	ILE	conflict	UNP P43003
A	260	LYS	ARG	conflict	UNP P43003
A	264	ILE	VAL	conflict	UNP P43003
A	271	LEU	VAL	conflict	UNP P43003
A	287	LEU	MET	conflict	UNP P43003
A	288	GLU	GLY	conflict	UNP P43003
A	290	LEU	ILE	conflict	UNP P43003
A	295	GLY	ALA	conflict	UNP P43003
A	298	MET	THR	conflict	UNP P43003
A	306	VAL	LEU	conflict	UNP P43003
A	309	GLY	ALA	conflict	UNP P43003
A	310	LEU	VAL	conflict	UNP P43003
A	316	ILE	LEU	conflict	UNP P43003
A	320	ILE	VAL	conflict	UNP P43003
A	326	PHE	TRP	conflict	UNP P43003
A	330	ALA	GLY	conflict	UNP P43003
A	332	ILE	LEU	conflict	UNP P43003
A	366	ILE	VAL	conflict	UNP P43003
A	386	GLN	GLU	conflict	UNP P43003
A	388	VAL	LEU	conflict	UNP P43003
A	399	TYR	PHE	conflict	UNP P43003
A	402	ASP	ASN	conflict	UNP P43003
A	437	ALA	SER	conflict	UNP P43003
A	454	LEU	PHE	conflict	UNP P43003
A	458	PHE	LEU	conflict	UNP P43003
A	461	MET	THR	conflict	UNP P43003
A	462	VAL	THR	conflict	UNP P43003
A	468	ALA	SER	conflict	UNP P43003
A	480	LYS	HIS	conflict	UNP P43003

Continued on next page...

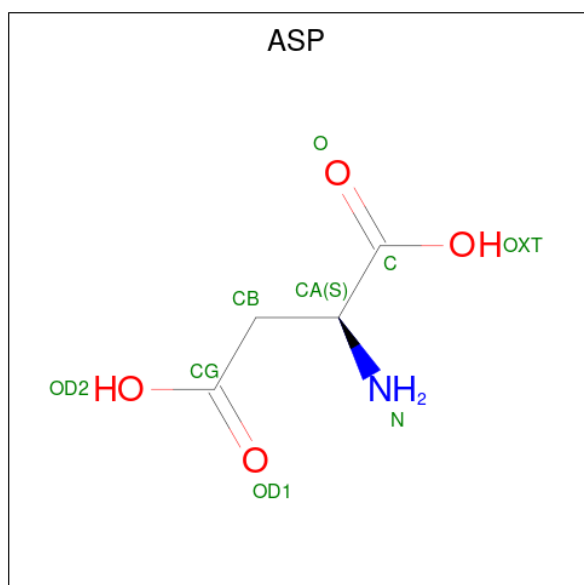
Continued from previous page...

Chain	Residue	Modelled	Actual	Comment	Reference
A	483	GLU	LYS	conflict	UNP P43003
A	484	LYS	ASN	conflict	UNP P43003
A	485	GLN	ARG	conflict	UNP P43003
A	487	ALA	VAL	conflict	UNP P43003
A	489	LEU	MET	conflict	UNP P43003

- Molecule 2 is SODIUM ION (CCD ID: NA) (formula: Na).

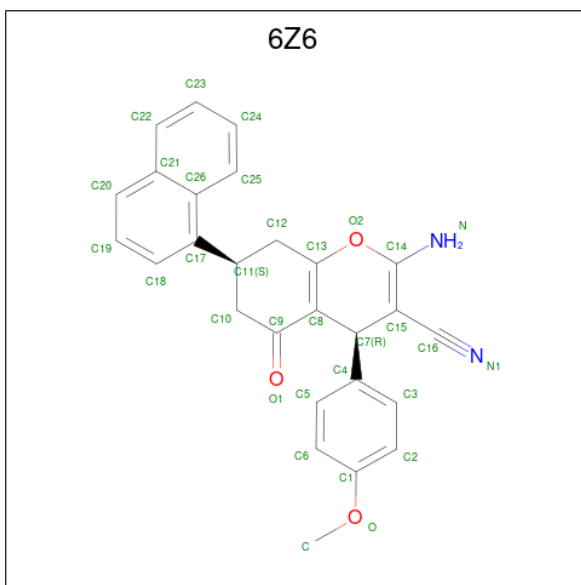
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	2	Total Na 2 2	0	0

- Molecule 3 is ASPARTIC ACID (CCD ID: ASP) (formula: C₄H₇NO₄).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total C N O 9 4 1 4	0	0

- Molecule 4 is 2-Amino-5,6,7,8-tetrahydro-4-(4-methoxyphenyl)-7-(naphthalen-1-yl)-5-oxo-4H-chromene-3-carbonitrile (CCD ID: 6Z6) (formula: C₂₇H₂₂N₂O₃) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
4	A	1	Total	C	N	O	0	0
			32	27	2	3		

- Molecule 5 is BARIUM ION (CCD ID: BA) (formula: Ba).

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

4 Data and refinement statistics

Property	Value	Source
Space group	P 63	Depositor
Cell constants a, b, c, α , β , γ	124.00Å 124.00Å 90.81Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	28.00 – 3.65 28.00 – 3.65	Depositor EDS
% Data completeness (in resolution range)	85.4 (28.00-3.65) 85.2 (28.00-3.65)	Depositor EDS
R_{merge}	0.14	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.88 (at 3.66Å)	Xtriage
Refinement program	BUSTER	Depositor
R, R_{free}	0.233 , 0.271 0.263 , 0.339	Depositor DCC
R_{free} test set	383 reflections (4.29%)	wwPDB-VP
Wilson B-factor (Å ²)	139.3	Xtriage
Anisotropy	0.014	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.28 , 82.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.43$, $\langle L^2 \rangle = 0.26$	Xtriage
Estimated twinning fraction	0.117 for h,-h-k,-l	Xtriage
F_o, F_c correlation	0.90	EDS
Total number of atoms	3118	wwPDB-VP
Average B, all atoms (Å ²)	96.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.62% 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: BA, 6Z6, 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	0.79	0/3118	1.41	9/4230 (0.2%)

There are no bond length outliers.

All (9) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	467	ASP	CA-CB-CG	5.19	117.79	112.60
1	A	99	LEU	CA-C-N	5.11	127.19	120.60
1	A	99	LEU	C-N-CA	5.11	127.19	120.60
1	A	75	PRO	CA-C-N	5.06	127.06	120.28
1	A	75	PRO	C-N-CA	5.06	127.06	120.28
1	A	469	LEU	CA-C-N	5.05	125.59	119.98
1	A	469	LEU	C-N-CA	5.05	125.59	119.98
1	A	432	VAL	CA-C-N	5.01	126.97	120.56
1	A	432	VAL	C-N-CA	5.01	126.97	120.56

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	3074	0	3297	23	0
2	A	2	0	0	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	A	9	0	3	0	0
4	A	32	0	0	0	0
5	A	1	0	0	0	0
All	All	3118	0	3300	23	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 4.

All (23) 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:70:PRO:O	1:A:72:PRO:HD3	2.02	0.59
1:A:356:LEU:HD12	1:A:371:LEU:HD11	1.85	0.58
1:A:102:SER:HB3	1:A:254:LEU:HD23	1.90	0.54
1:A:393:ILE:HD12	1:A:444:ASP:HB3	1.91	0.51
1:A:313:LEU:HA	1:A:316:ILE:HD12	1.94	0.50
1:A:298:MET:HG2	1:A:455:LEU:HD21	1.94	0.50
1:A:446:THR:HA	1:A:449:ILE:HD12	1.95	0.49
1:A:406:ILE:HA	1:A:409:ILE:HD12	1.95	0.48
1:A:362:VAL:HG12	1:A:366:ILE:HD11	1.96	0.47
1:A:139:ILE:HG13	1:A:387:ALA:HB1	1.98	0.46
1:A:344:SER:HB2	1:A:424:PRO:HD3	1.98	0.46
1:A:356:LEU:HD22	1:A:362:VAL:HG21	1.99	0.44
1:A:281:ILE:HG22	1:A:453:TRP:CH2	2.52	0.44
1:A:362:VAL:CG1	1:A:366:ILE:HD11	2.48	0.44
1:A:305:LEU:HD22	1:A:462:VAL:HG21	2.00	0.43
1:A:141:LEU:HD13	1:A:304:GLY:HA2	2.00	0.43
1:A:172:VAL:HG13	1:A:433:ILE:HG13	2.01	0.43
1:A:376:THR:HG23	1:A:377:ILE:HD12	2.01	0.43
1:A:281:ILE:HG22	1:A:453:TRP:HH2	1.85	0.41
1:A:130:THR:HA	1:A:133:ILE:HG12	2.03	0.41
1:A:344:SER:HB3	1:A:347:ALA:HB3	2.01	0.41
1:A:393:ILE:HG22	1:A:440:LEU:HD22	2.02	0.41
1:A:453:TRP:O	1:A:457:ARG:HG2	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	394/522 (76%)	380 (96%)	14 (4%)	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	336/431 (78%)	314 (94%)	22 (6%)	15	40

All (22) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	36	ILE
1	A	51	LEU
1	A	68	LEU
1	A	69	ARG
1	A	77	GLU
1	A	104	LEU
1	A	119	LEU
1	A	137	LEU
1	A	183	ILE
1	A	190	SER
1	A	217	GLU
1	A	261	LEU
1	A	301	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	A	319	LEU
1	A	332	ILE
1	A	345	SER
1	A	351	ILE
1	A	353	PHE
1	A	377	ILE
1	A	386	GLN
1	A	423	ILE
1	A	454	LEU

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	405	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 oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 5 ligands modelled in this entry, 3 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	6Z6	A	604	-	36,36,36	1.53	10 (27%)	49,52,52	1.43	7 (14%)
3	ASP	A	603	-	7,8,8	1.04	0	6,10,10	0.88	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
4	6Z6	A	604	-	-	4/10/44/44	0/5/5/5
3	ASP	A	603	-	-	3/8/8/8	-

All (10) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	604	6Z6	C17-C26	3.37	1.48	1.43
4	A	604	6Z6	C14-N	2.96	1.37	1.33
4	A	604	6Z6	C15-C14	2.66	1.38	1.35
4	A	604	6Z6	C9-C8	2.49	1.50	1.45
4	A	604	6Z6	C19-C18	2.49	1.43	1.38
4	A	604	6Z6	C24-C23	2.43	1.43	1.38
4	A	604	6Z6	C2-C1	2.39	1.43	1.38
4	A	604	6Z6	C3-C2	2.20	1.42	1.38
4	A	604	6Z6	C8-C13	2.06	1.37	1.34
4	A	604	6Z6	C5-C4	2.04	1.42	1.39

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	A	604	6Z6	C11-C17-C26	4.49	125.27	120.59
4	A	604	6Z6	C4-C7-C15	-3.40	107.05	111.47
4	A	604	6Z6	O2-C13-C8	3.19	124.79	122.72
4	A	604	6Z6	C4-C7-C8	-2.57	107.93	111.61
4	A	604	6Z6	C18-C17-C11	-2.46	116.82	120.34
4	A	604	6Z6	C7-C8-C13	-2.26	121.06	122.59
4	A	604	6Z6	O2-C13-C12	-2.09	108.60	111.65

There are no chirality outliers.

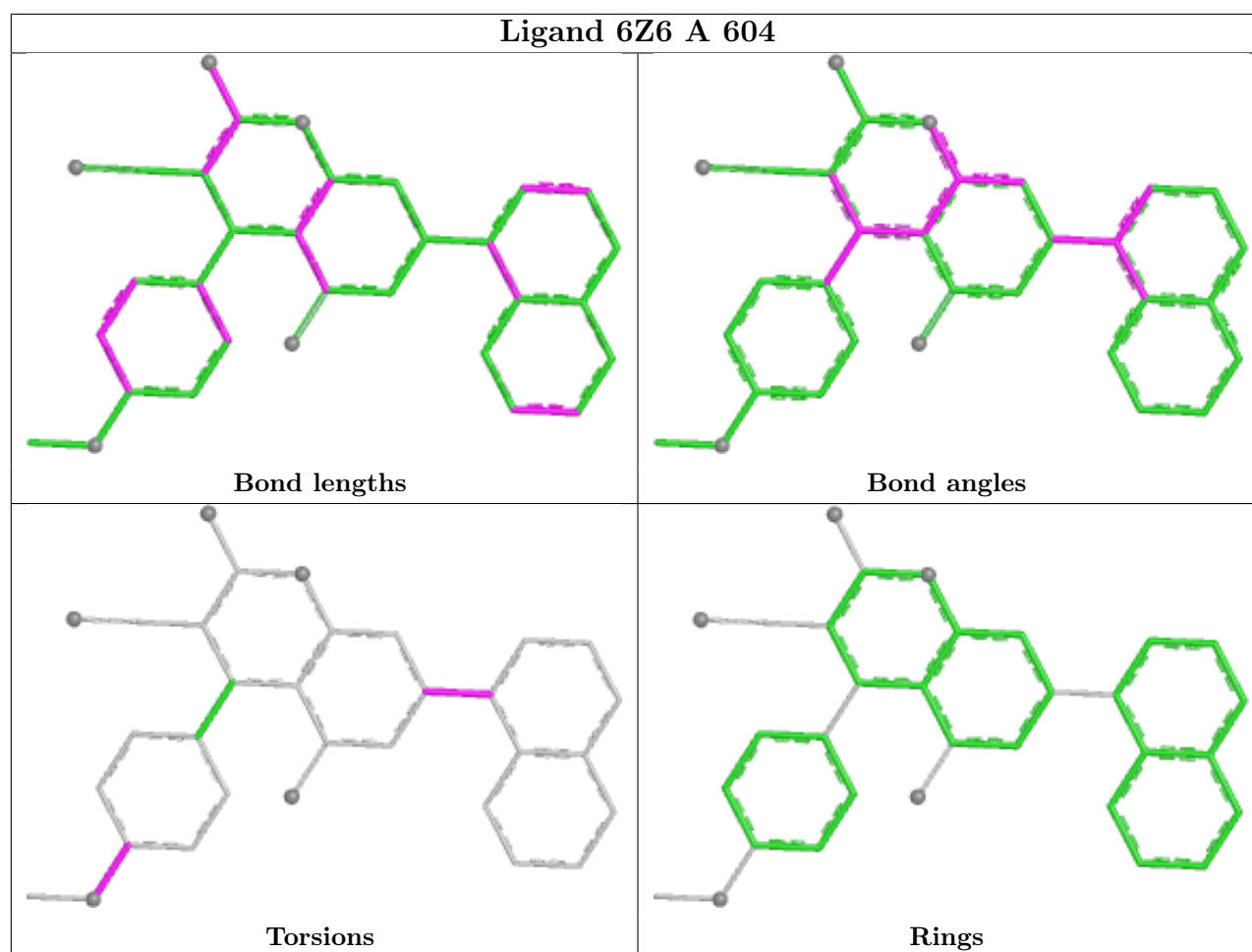
All (7) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	A	604	6Z6	C12-C11-C17-C26
4	A	604	6Z6	C6-C1-O-C
4	A	604	6Z6	C2-C1-O-C
4	A	604	6Z6	C12-C11-C17-C18
3	A	603	ASP	CA-CB-CG-OD1
3	A	603	ASP	CA-CB-CG-OD2
3	A	603	ASP	OXT-C-CA-N

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	404/522 (77%)	0.36	40 (9%) 13 11	11, 90, 178, 255	0

All (40) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	430	THR	4.7
1	A	118	ARG	4.2
1	A	404	GLY	4.1
1	A	467	ASP	3.9
1	A	439	GLY	3.7
1	A	433	ILE	3.7
1	A	425	GLN	3.4
1	A	172	VAL	3.3
1	A	45	LEU	3.3
1	A	122	ARG	3.2
1	A	407	ILE	3.0
1	A	488	GLU	2.9
1	A	107	GLY	2.8
1	A	477	LEU	2.7
1	A	282	VAL	2.6
1	A	113	ALA	2.6
1	A	473	ILE	2.6
1	A	267	TRP	2.5
1	A	486	ASP	2.4
1	A	104	LEU	2.4
1	A	422	GLY	2.4
1	A	397	ASN	2.4
1	A	137	LEU	2.4
1	A	428	LEU	2.2
1	A	335	ALA	2.2
1	A	33	VAL	2.2
1	A	429	VAL	2.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	A	469	LEU	2.2
1	A	470	GLY	2.2
1	A	438	VAL	2.1
1	A	384	LEU	2.1
1	A	46	ARG	2.1
1	A	468	ALA	2.1
1	A	320	ILE	2.1
1	A	103	SER	2.1
1	A	388	VAL	2.1
1	A	138	GLY	2.0
1	A	132	ILE	2.0
1	A	409	ILE	2.0
1	A	464	VAL	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](#)

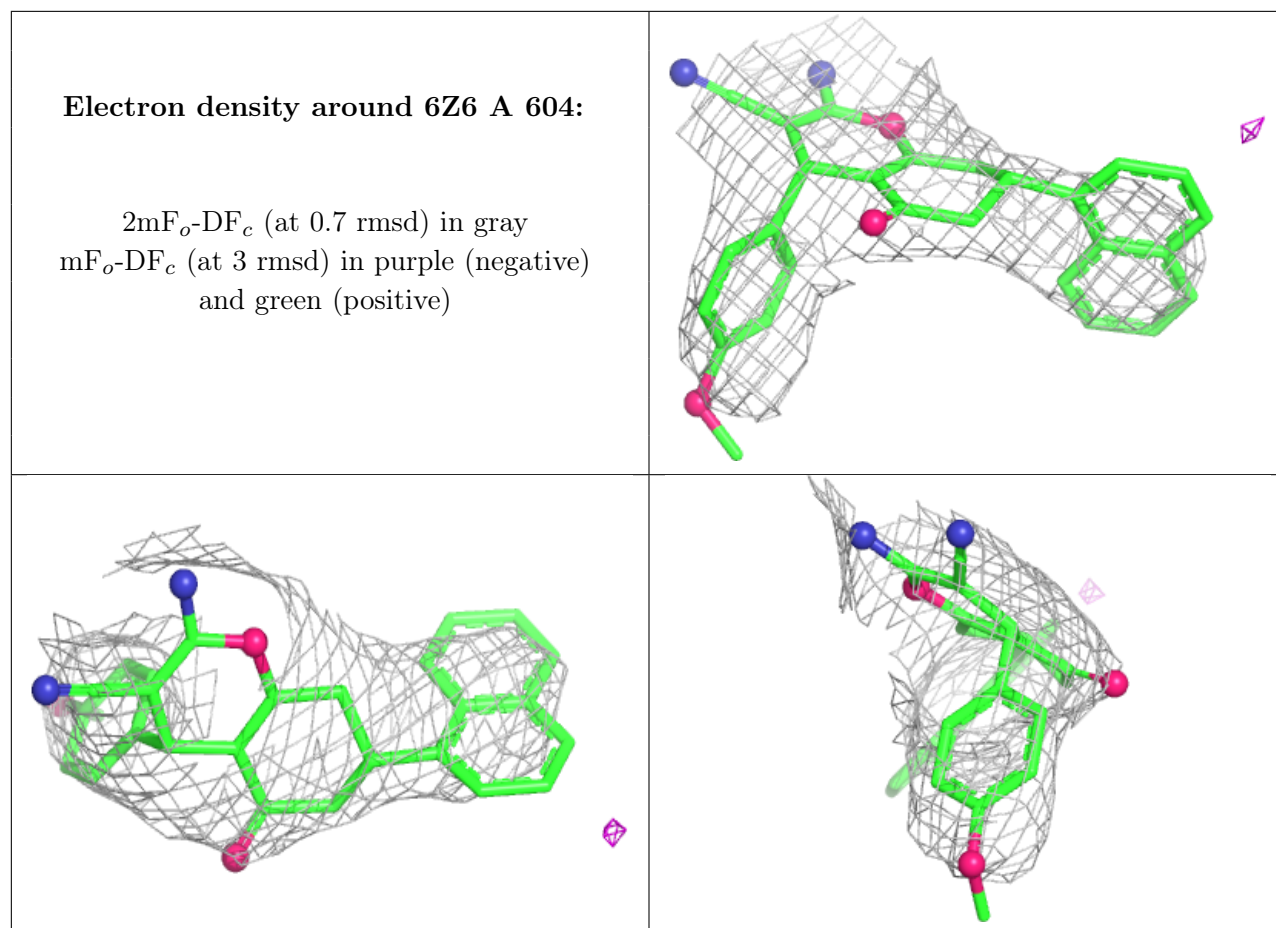
There are no oligosaccharides in this entry.

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
5	BA	A	605	1/1	0.84	0.10	149,149,149,149	1
4	6Z6	A	604	32/32	0.85	0.14	73,82,88,93	0
3	ASP	A	603	9/9	0.86	0.12	54,67,82,87	0
2	NA	A	602	1/1	0.94	0.07	41,41,41,41	0
2	NA	A	601	1/1	0.98	0.03	107,107,107,107	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.