



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 07:28 PM UTC

PDB ID : 6R4I / pdb_00006r4i
Title : Crystal structure of human GFAT-1 G461E
Authors : Ruegenberg, S.; Horn, M.; Pichlo, C.; Allmeroth, K.; Baumann, U.; Denzel, M.S.
Deposited on : 2019-03-22
Resolution : 2.59 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

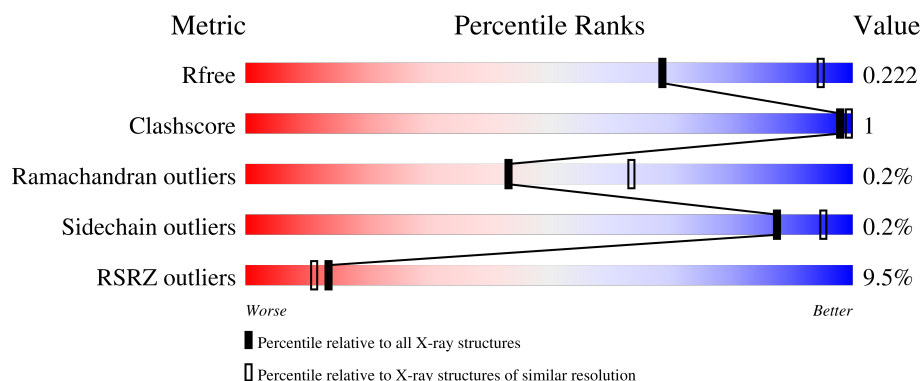
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.59 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	4770 (2.60-2.56)
Clashscore	190562	5124 (2.60-2.56)
Ramachandran outliers	187476	5046 (2.60-2.56)
Sidechain outliers	187428	5046 (2.60-2.56)
RSRZ outliers	180081	4770 (2.60-2.56)

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	687	4% 93% • •
1	B	687	14% 93% • 5%

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 20882 atoms, of which 10419 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.

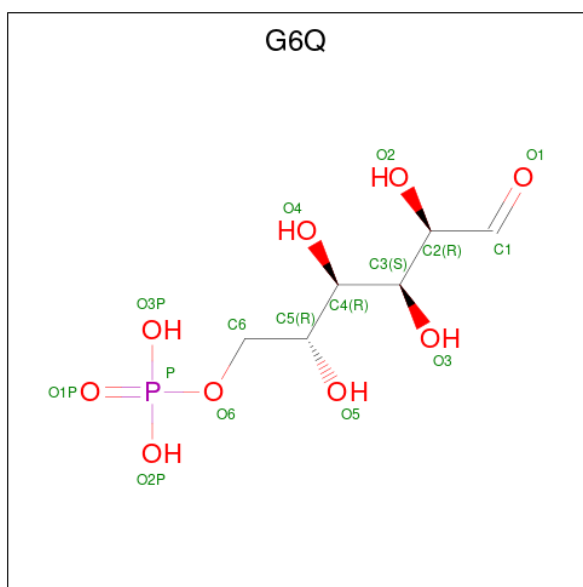
- Molecule 1 is a protein called Glutamine--fructose-6-phosphate aminotransferase [isomerizing] 1.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	659	Total	C	H	N	O	S	0	0	0
			10417	3284	5213	906	982	32			
1	B	650	Total	C	H	N	O	S	0	0	0
			10328	3254	5175	894	973	32			

There are 14 discrepancies between the modelled and reference sequences:

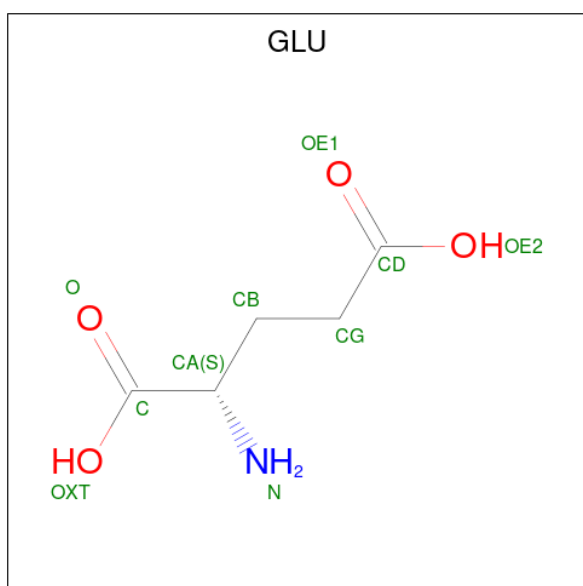
Chain	Residue	Modelled	Actual	Comment	Reference
A	299A	HIS	-	insertion	UNP Q06210
A	299B	HIS	-	insertion	UNP Q06210
A	299C	HIS	-	insertion	UNP Q06210
A	299D	HIS	-	insertion	UNP Q06210
A	299E	HIS	-	insertion	UNP Q06210
A	299F	HIS	-	insertion	UNP Q06210
A	461	GLU	GLY	engineered mutation	UNP Q06210
B	299A	HIS	-	insertion	UNP Q06210
B	299B	HIS	-	insertion	UNP Q06210
B	299C	HIS	-	insertion	UNP Q06210
B	299D	HIS	-	insertion	UNP Q06210
B	299E	HIS	-	insertion	UNP Q06210
B	299F	HIS	-	insertion	UNP Q06210
B	461	GLU	GLY	engineered mutation	UNP Q06210

- Molecule 2 is GLUCOSE-6-PHOSPHATE (CCD ID: G6Q) (formula: C₆H₁₃O₉P).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
2	A	1	Total	C	H	O	P	0	0
			29	6	13	9	1		
2	B	1	Total	C	H	O	P	0	0
			29	6	13	9	1		

- Molecule 3 is GLUTAMIC ACID (CCD ID: GLU) (formula: $C_5H_9NO_4$).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	A	1	Total	C	H	N	O	0	0
			15	5	5	1	4		

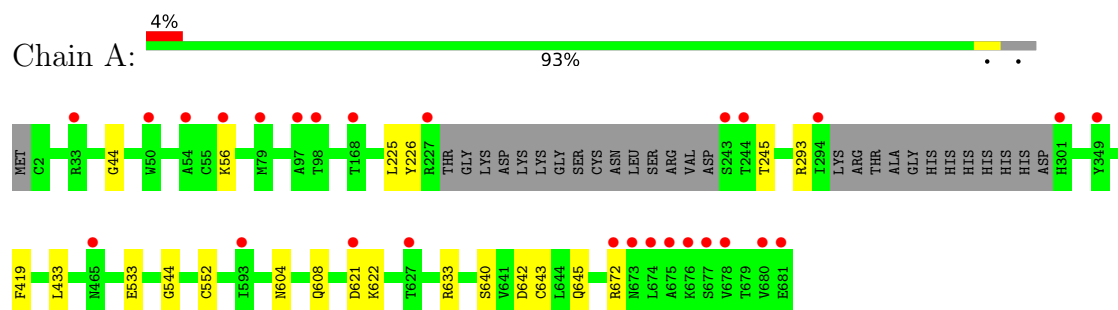
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	43	Total 43	O 43	0	0
4	B	21	Total 21	O 21	0	0

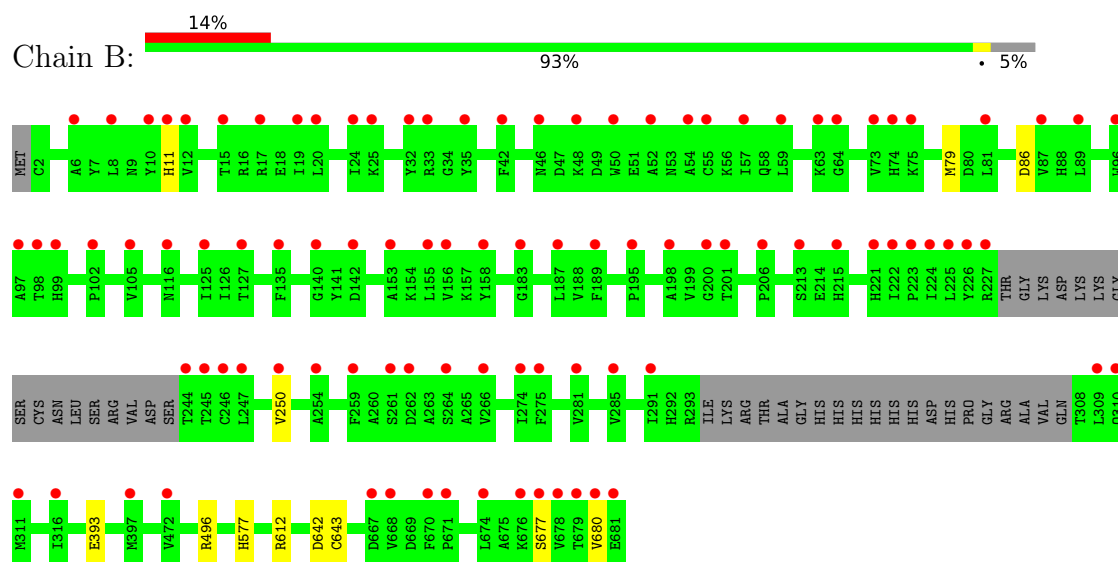
3 Residue-property plots [i](#)

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: Glutamine--fructose-6-phosphate aminotransferase [isomerizing] 1



- Molecule 1: Glutamine--fructose-6-phosphate aminotransferase [isomerizing] 1



4 Data and refinement statistics

Property	Value	Source
Space group	P 41 21 2	Depositor
Cell constants a, b, c, α , β , γ	152.75Å 152.75Å 165.99Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	48.68 – 2.59 48.68 – 2.59	Depositor EDS
% Data completeness (in resolution range)	99.6 (48.68-2.59) 96.5 (48.68-2.59)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.09 (at 2.58Å)	Xtriage
Refinement program	PHENIX (dev_2499: ???)	Depositor
R, R_{free}	0.192 , 0.219 0.194 , 0.222	Depositor DCC
R_{free} test set	1967 reflections (3.19%)	wwPDB-VP
Wilson B-factor (Å ²)	60.6	Xtriage
Anisotropy	0.017	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.39 , 65.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	20882	wwPDB-VP
Average B, all atoms (Å ²)	119.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.35% 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: G6Q

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	0.12	0/5293	0.28	0/7146
1	B	0.11	0/5241	0.25	0/7073
All	All	0.11	0/10534	0.27	0/14219

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	5204	5213	5212	11	0
1	B	5153	5175	5173	5	0
2	A	16	13	11	1	0
2	B	16	13	11	0	0
3	A	10	5	5	0	0
4	A	43	0	0	0	0
4	B	21	0	0	0	0
All	All	10463	10419	10412	15	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 (15) 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:621:ASP:OD1	1:A:622:LYS:N	2.35	0.60
1:A:604:ASN:ND2	1:A:608:GLN:OE1	2.38	0.56
1:A:640:SER:N	1:A:645:GLN:OE1	2.39	0.54
1:A:544:GLY:N	1:A:552:CYS:SG	2.84	0.51
1:A:533:GLU:OE1	1:A:633:ARG:NE	2.46	0.48
1:A:419:PHE:CZ	1:A:433:LEU:HA	2.51	0.46
1:B:393:GLU:OE2	1:B:496:ARG:NH1	2.44	0.45
2:A:701:G6Q:HO5	1:B:577:HIS:HD1	1.66	0.44
1:B:11:HIS:N	1:B:86:ASP:O	2.50	0.43
1:A:225:LEU:HD21	1:A:245:THR:HB	2.02	0.41
1:A:642:ASP:OD2	1:A:643:CYS:N	2.53	0.41
1:A:672:ARG:HE	1:B:612:ARG:NH2	2.19	0.41
1:A:44:GLY:N	1:A:56:LYS:O	2.43	0.41
1:A:226:TYR:HA	1:A:293:ARG:O	2.22	0.40
1:B:642:ASP:OD1	1:B:643:CYS:N	2.55	0.40

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	653/687 (95%)	640 (98%)	13 (2%)	0	100	100
1	B	644/687 (94%)	607 (94%)	35 (5%)	2 (0%)	36	56
All	All	1297/1374 (94%)	1247 (96%)	48 (4%)	2 (0%)	43	63

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	677	SER

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Mol	Chain	Res	Type
1	B	250	VAL

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	573/602 (95%)	573 (100%)	0	100	100
1	B	570/602 (95%)	568 (100%)	2 (0%)	84	92
All	All	1143/1204 (95%)	1141 (100%)	2 (0%)	87	95

All (2) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	79	MET
1	B	680	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (11) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	215	HIS
1	A	359	HIS
1	A	386	GLN
1	A	422	GLN
1	A	448	ASN
1	A	597	HIS
1	B	9	ASN
1	B	11	HIS
1	B	76	GLN
1	B	162	ASN
1	B	269	HIS

5.3.3 RNA ⓘ

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](#)

3 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	$\# Z > 2$
2	G6Q	A	701	-	14,15,15	0.39	0	19,21,21	0.88	2 (10%)
2	G6Q	B	701	-	14,15,15	0.38	0	19,21,21	0.67	1 (5%)
3	GLU	A	702	-	8,9,9	1.10	1 (12%)	8,11,11	1.19	1 (12%)

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	G6Q	A	701	-	-	13/19/20/20	-
2	G6Q	B	701	-	-	5/19/20/20	-
3	GLU	A	702	-	-	2/9/9/9	-

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	702	GLU	OXT-C	-2.21	1.23	1.30

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	702	GLU	OXT-C-O	-2.67	118.02	124.08
2	A	701	G6Q	O2-C2-C3	2.20	114.61	109.46
2	A	701	G6Q	O6-P-O1P	2.16	112.28	106.44
2	B	701	G6Q	O2-C2-C3	2.01	114.18	109.46

There are no chirality outliers.

All (20) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	701	G6Q	C1-C2-C3-C4
2	A	701	G6Q	O2-C2-C3-C4
2	A	701	G6Q	O2-C2-C3-O3
2	A	701	G6Q	C3-C4-C5-O5
2	A	701	G6Q	O4-C4-C5-O5
2	A	701	G6Q	C4-C5-C6-O6
2	A	701	G6Q	O5-C5-C6-O6
2	B	701	G6Q	O1-C1-C2-C3
2	B	701	G6Q	C1-C2-C3-C4
2	A	701	G6Q	O4-C4-C5-C6
2	A	701	G6Q	C3-C4-C5-C6
2	A	701	G6Q	C1-C2-C3-O3
2	B	701	G6Q	C1-C2-C3-O3
3	A	702	GLU	OE1-CD-CG-CB
3	A	702	GLU	OE2-CD-CG-CB
2	A	701	G6Q	C6-O6-P-O2P
2	A	701	G6Q	C6-O6-P-O3P
2	A	701	G6Q	C2-C3-C4-O4
2	B	701	G6Q	O2-C2-C3-C4
2	B	701	G6Q	O2-C2-C3-O3

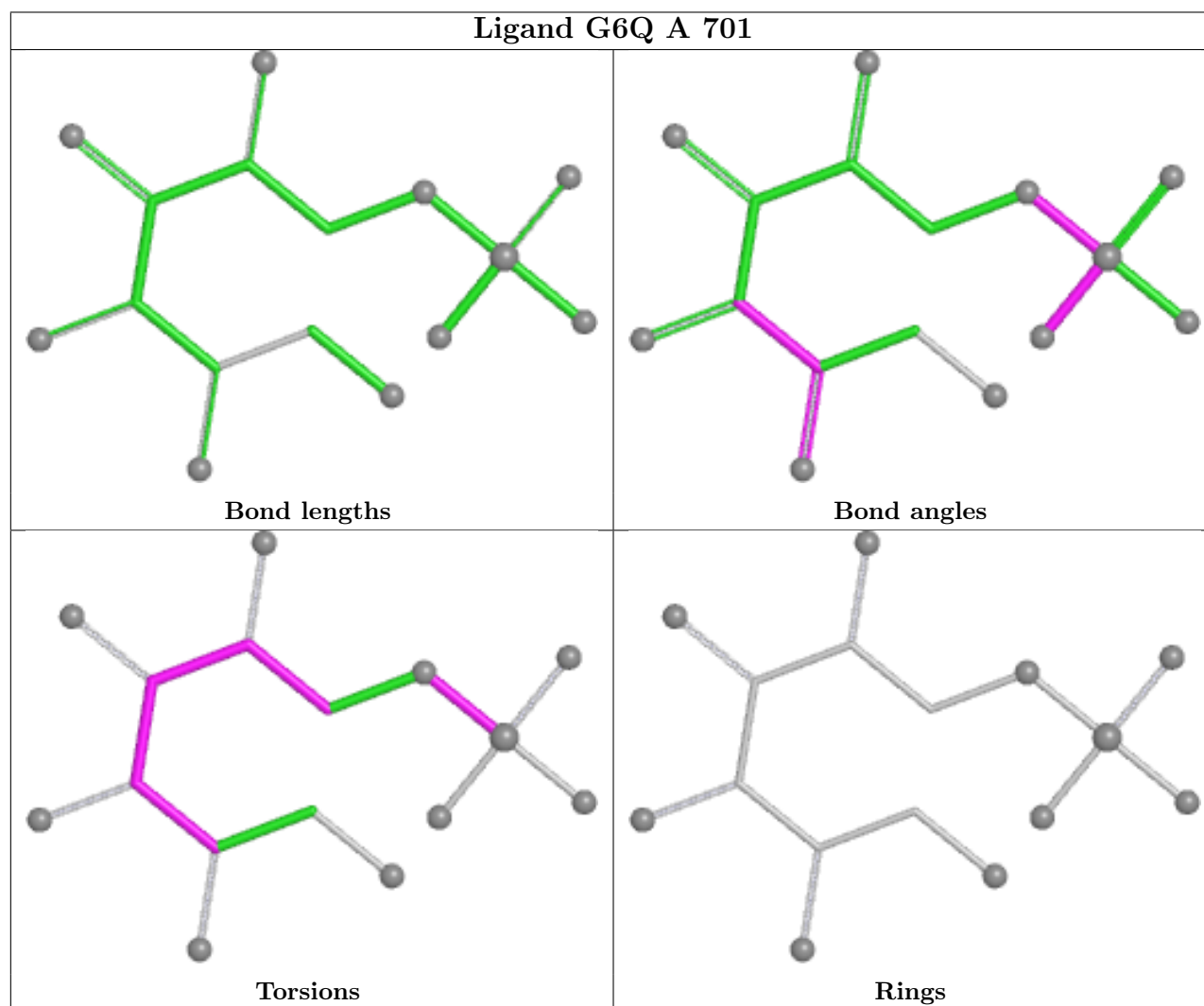
There are no ring outliers.

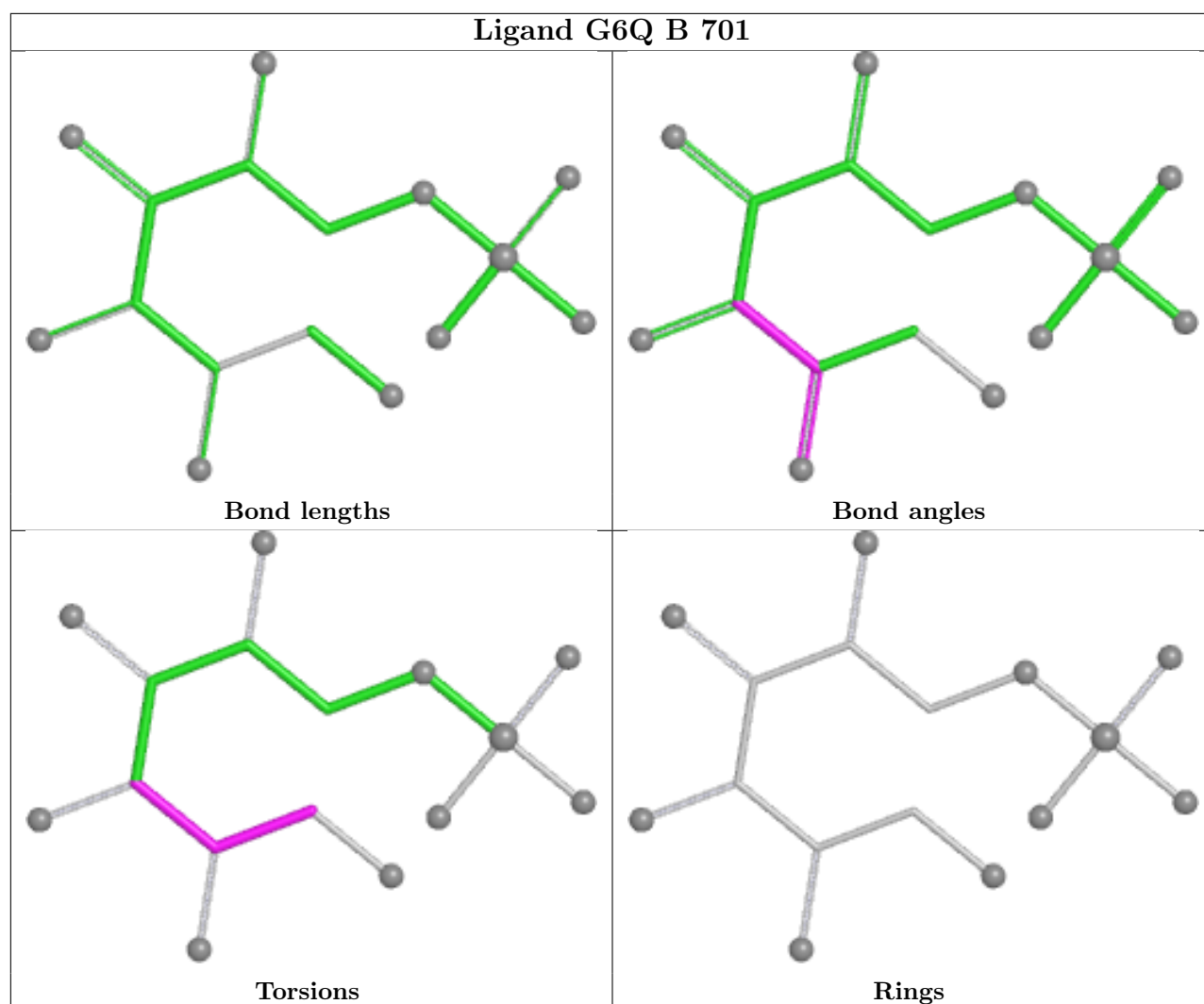
1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	701	G6Q	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 [i](#)

6.1 Protein, DNA and RNA chains [i](#)

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	659/687 (95%)	0.11	27 (4%) 41 37	49, 75, 135, 210	0
1	B	650/687 (94%)	0.79	97 (14%) 5 4	54, 111, 309, 444	0
All	All	1309/1374 (95%)	0.45	124 (9%) 14 11	49, 84, 285, 444	0

All (124) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	20	LEU	6.2
1	A	674	LEU	5.9
1	B	155	LEU	5.0
1	A	301	HIS	4.7
1	B	98	THR	4.6
1	B	74	HIS	4.6
1	A	673	ASN	4.5
1	B	135	PHE	4.3
1	B	125	ILE	4.3
1	A	227	ARG	4.3
1	A	294	ILE	4.1
1	B	680	VAL	4.1
1	A	675	ALA	4.0
1	B	156	VAL	4.0
1	B	670	PHE	4.0
1	B	73	VAL	3.9
1	B	247	LEU	3.8
1	A	681	GLU	3.8
1	B	24	ILE	3.8
1	B	275	PHE	3.7
1	B	677	SER	3.7
1	A	243	SER	3.6
1	A	244	THR	3.6
1	B	54	ALA	3.5

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Mol	Chain	Res	Type	RSRZ
1	B	309	LEU	3.5
1	B	81	LEU	3.5
1	B	198	ALA	3.5
1	A	676	LYS	3.5
1	B	225	LEU	3.4
1	B	679	THR	3.3
1	B	99	HIS	3.3
1	B	153	ALA	3.3
1	B	32	TYR	3.3
1	B	674	LEU	3.3
1	B	472	VAL	3.3
1	A	98	THR	3.3
1	B	224	ILE	3.3
1	A	349	TYR	3.2
1	B	678	VAL	3.2
1	B	262	ASP	3.2
1	B	244	THR	3.2
1	B	15	THR	3.1
1	A	680	VAL	3.1
1	B	222	ILE	3.1
1	B	52	ALA	3.1
1	B	105	VAL	3.1
1	B	42	PHE	3.0
1	A	50	TRP	3.0
1	B	206	PRO	3.0
1	A	621	ASP	3.0
1	B	12	VAL	3.0
1	B	142	ASP	3.0
1	B	50	TRP	2.9
1	B	116	ASN	2.9
1	B	201	THR	2.9
1	B	158	TYR	2.9
1	B	261	SER	2.8
1	B	59	LEU	2.8
1	B	245	THR	2.8
1	B	259	PHE	2.8
1	B	189	PHE	2.7
1	B	10	TYR	2.7
1	B	200	GLY	2.7
1	B	227	ARG	2.7
1	B	19	ILE	2.6
1	B	102	PRO	2.6

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Mol	Chain	Res	Type	RSRZ
1	B	668	VAL	2.6
1	B	264	SER	2.6
1	B	274	ILE	2.6
1	B	671	PRO	2.6
1	A	593	ILE	2.6
1	B	291	ILE	2.6
1	A	678	VAL	2.5
1	B	17	ARG	2.5
1	B	246	CYS	2.5
1	B	316	ILE	2.5
1	B	89	LEU	2.5
1	B	221	HIS	2.5
1	B	87	VAL	2.4
1	B	254	ALA	2.4
1	B	397	MET	2.4
1	B	33	ARG	2.4
1	A	54	ALA	2.4
1	A	97	ALA	2.4
1	A	168	THR	2.4
1	B	183	GLY	2.4
1	A	79	MET	2.4
1	B	215	HIS	2.4
1	B	226	TYR	2.4
1	B	250	VAL	2.4
1	B	75	LYS	2.3
1	B	681	GLU	2.3
1	B	676	LYS	2.3
1	B	285	VAL	2.3
1	B	223	PRO	2.3
1	B	140	GLY	2.3
1	A	33	ARG	2.3
1	A	677	SER	2.2
1	A	672	ARG	2.2
1	B	281	VAL	2.2
1	B	46	ASN	2.2
1	B	25	LYS	2.2
1	B	63	LYS	2.2
1	B	266	VAL	2.2
1	A	465	ASN	2.2
1	B	48	LYS	2.2
1	B	311	MET	2.2
1	B	187	LEU	2.2

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Mol	Chain	Res	Type	RSRZ
1	B	57	ILE	2.2
1	B	213	SER	2.2
1	B	667	ASP	2.2
1	B	96	TRP	2.2
1	B	127	THR	2.1
1	A	56	LYS	2.1
1	B	310	GLN	2.1
1	B	6	ALA	2.1
1	B	8	LEU	2.1
1	A	627	THR	2.1
1	B	97	ALA	2.0
1	B	64	GLY	2.0
1	B	55	CYS	2.0
1	B	195	PRO	2.0
1	B	11	HIS	2.0
1	B	35	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](#)

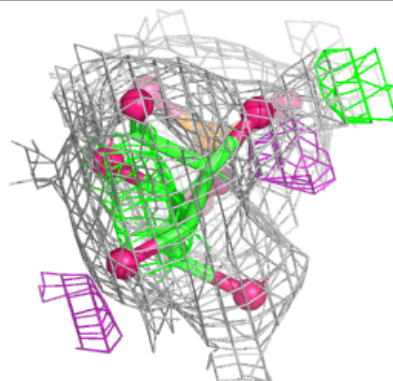
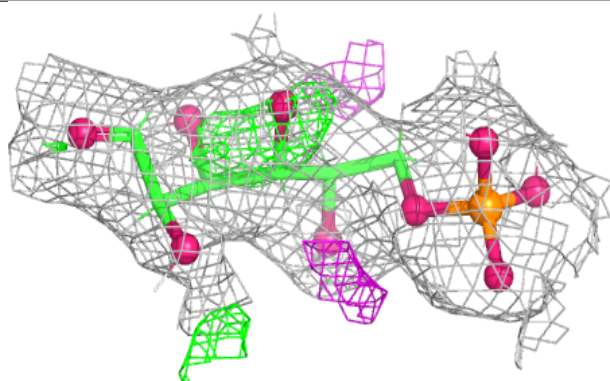
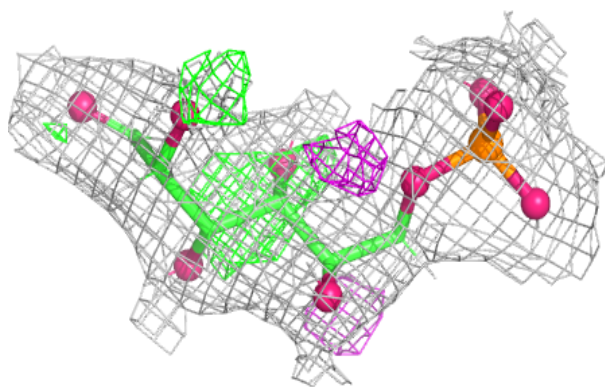
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists 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
3	GLU	A	702	10/10	0.91	0.13	83,87,104,104	0
2	G6Q	B	701	16/16	0.94	0.14	73,100,122,126	0
2	G6Q	A	701	16/16	0.95	0.10	56,69,85,89	0

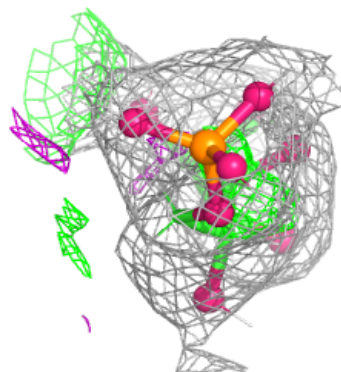
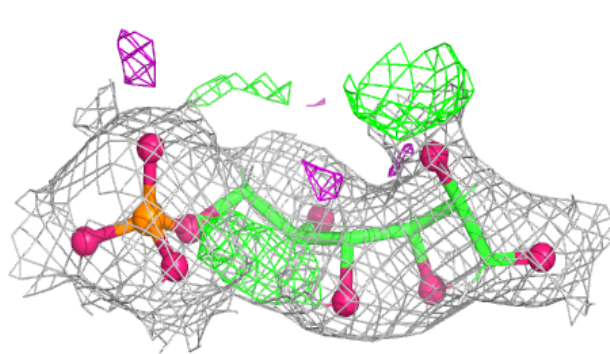
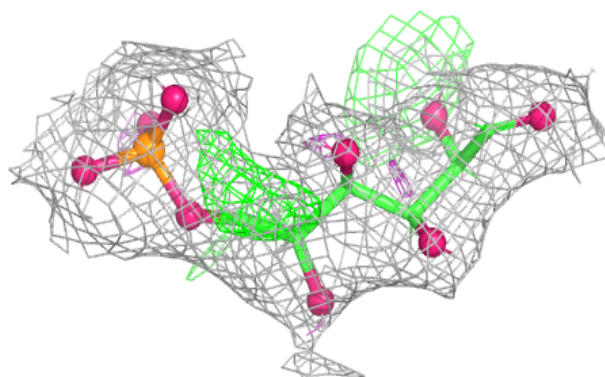
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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

Electron density around G6Q B 701:

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

**Electron density around G6Q A 701:**

$2mF_o-DF_c$ (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.