



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 6, 2026 – 08:05 PM UTC

PDB ID : 6G6W / pdb_00006g6w
Title : HUMAN PI3KDELTA IN COMPLEX WITH LIGAND LASW1976
Authors : Segarra, V.; Hernandez, B.; Jestel, A.; Mortel, M.; Nagel, S.
Deposited on : 2018-04-03
Resolution : 2.72 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

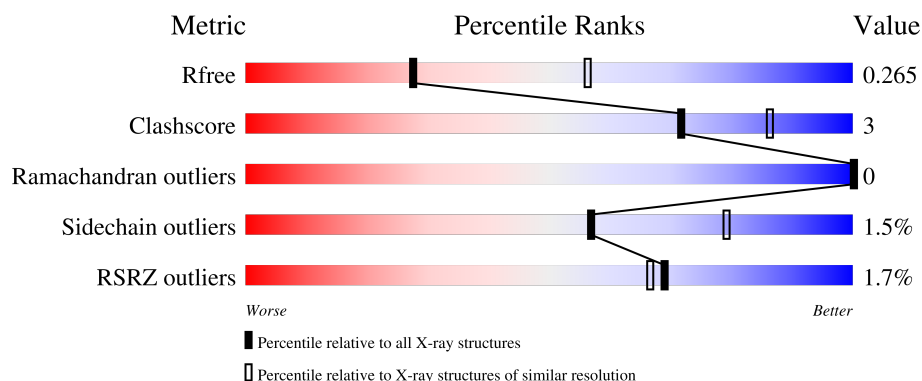
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

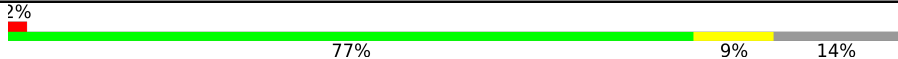
The reported resolution of this entry is 2.72 Å.

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	4348 (2.74-2.70)
Clashscore	190562	4665 (2.74-2.70)
Ramachandran outliers	187476	4584 (2.74-2.70)
Sidechain outliers	187428	4585 (2.74-2.70)
RSRZ outliers	180081	4348 (2.74-2.70)

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	1072	
2	B	170	

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 8842 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 Phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic sub-unit delta isoform.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	925	Total	C	N	O	S	145	0	0
			7461	4775	1269	1364	53			

There are 28 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-27	MET	-	initiating methionine	UNP O00329
A	-26	SER	-	expression tag	UNP O00329
A	-25	TYR	-	expression tag	UNP O00329
A	-24	TYR	-	expression tag	UNP O00329
A	-23	HIS	-	expression tag	UNP O00329
A	-22	HIS	-	expression tag	UNP O00329
A	-21	HIS	-	expression tag	UNP O00329
A	-20	HIS	-	expression tag	UNP O00329
A	-19	HIS	-	expression tag	UNP O00329
A	-18	HIS	-	expression tag	UNP O00329
A	-17	ASP	-	expression tag	UNP O00329
A	-16	TYR	-	expression tag	UNP O00329
A	-15	ASP	-	expression tag	UNP O00329
A	-14	ILE	-	expression tag	UNP O00329
A	-13	PRO	-	expression tag	UNP O00329
A	-12	THR	-	expression tag	UNP O00329
A	-11	THR	-	expression tag	UNP O00329
A	-10	GLU	-	expression tag	UNP O00329
A	-9	ASN	-	expression tag	UNP O00329
A	-8	LEU	-	expression tag	UNP O00329
A	-7	TYR	-	expression tag	UNP O00329
A	-6	PHE	-	expression tag	UNP O00329
A	-5	GLN	-	expression tag	UNP O00329
A	-4	GLY	-	expression tag	UNP O00329
A	-3	ALA	-	expression tag	UNP O00329
A	-2	MET	-	expression tag	UNP O00329

Continued on next page...

Continued from previous page...

Chain	Residue	Modelled	Actual	Comment	Reference
A	-1	GLY	-	expression tag	UNP O00329
A	0	SER	-	expression tag	UNP O00329

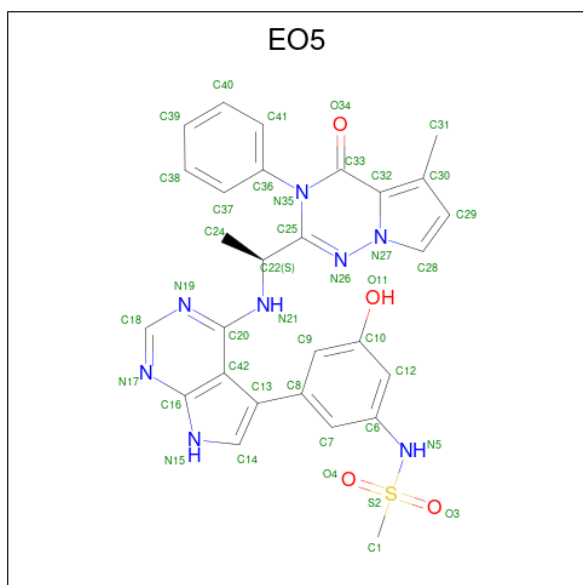
- Molecule 2 is a protein called Phosphatidylinositol 3-kinase regulatory subunit alpha.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	153	Total	C	N	O	S	22	1	0
			1334	830	241	258	5			

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	430	MET	-	initiating methionine	UNP P23727

- Molecule 3 is {N}-[3-[4-[(1 {S})-1-(5-methyl-4-oxidanylidene-3-phenyl-pyrrolo[2,1-f][1,2,4]triazin-2-yl)ethyl]amino]-7 {H}-pyrrolo[2,3-d]pyrimidin-5-yl]-5-oxidanyl-phenyl]methanesulfonamide (CCD ID: EO5) (formula: C₂₈H₂₆N₈O₄S).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	A	1	Total	C	N	O	S	0	0
			41	28	8	4	1		

- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	6	Total	O	0	0
			6	6		

4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	90.45Å 108.95Å 142.48Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	86.57 – 2.72 86.55 – 2.72	Depositor EDS
% Data completeness (in resolution range)	99.9 (86.57-2.72) 99.9 (86.55-2.72)	Depositor EDS
R_{merge}	0.04	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.32 (at 2.73Å)	Xtriage
Refinement program	REFMAC 5.6.0117	Depositor
R, R_{free}	0.218 , 0.260 0.215 , 0.265	Depositor DCC
R_{free} test set	791 reflections (2.05%)	wwPDB-VP
Wilson B-factor (Å ²)	81.4	Xtriage
Anisotropy	0.496	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.29 , 60.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	8842	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 4.08% 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: EO5

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	0/7624	0.87	0/10307
2	B	0.72	0/1351	0.94	0/1801
All	All	0.78	0/8975	0.88	0/12108

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	2

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	173	PRO	Peptide
1	A	496	ARG	Peptide

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	7461	0	7436	55	0
2	B	1334	0	1330	2	0
3	A	41	0	0	2	0
4	A	6	0	0	0	0
All	All	8842	0	8766	57	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 (57) 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:549:LEU:HD21	1:A:564:MET:HE1	1.59	0.82
1:A:777:ILE:HG21	3:A:1101:EO5:C1	2.20	0.71
1:A:834:ILE:HD11	1:A:901:ILE:HD11	1.77	0.67
1:A:74:ASN:OD1	1:A:76:THR:HG22	1.95	0.66
1:A:192:VAL:HG23	1:A:272:PRO:HB2	1.79	0.63
1:A:423:LEU:HD13	1:A:439:LEU:HD21	1.81	0.63
1:A:564:MET:HA	1:A:564:MET:HE2	1.82	0.62
1:A:514:ILE:HD12	1:A:530:LEU:HD23	1.84	0.60
1:A:514:ILE:CD1	1:A:530:LEU:HD23	2.31	0.60
2:B:468[A]:GLU:OE2	2:B:468[A]:GLU:HA	2.02	0.60
1:A:317:TRP:CZ3	1:A:494:LEU:HD12	2.38	0.58
1:A:475:LEU:HD23	1:A:476:PRO:HD2	1.86	0.57
1:A:549:LEU:CD2	1:A:564:MET:HE1	2.32	0.55
1:A:608:LEU:HD23	1:A:643:ILE:HD13	1.91	0.52
1:A:810:MET:HE3	1:A:882:TYR:CZ	2.45	0.52
1:A:872:ILE:HD13	1:A:944:GLN:HG2	1.93	0.51
1:A:358:VAL:HG11	1:A:376:GLU:O	2.11	0.51
1:A:900:MET:HE1	3:A:1101:EO5:N19	2.26	0.50
1:A:344:GLN:HE22	1:A:452:LEU:HD22	1.77	0.50
1:A:742:ALA:HB3	1:A:765:ASN:HA	1.93	0.49
1:A:583:LEU:HD11	1:A:600:LEU:HD11	1.95	0.49
1:A:975:LEU:HD22	1:A:995:ILE:HG22	1.95	0.48
1:A:750:THR:OG1	1:A:751:PHE:N	2.46	0.48
1:A:214:LEU:HD12	1:A:217:MET:HE3	1.96	0.48
1:A:344:GLN:NE2	1:A:452:LEU:HD13	2.29	0.47
1:A:549:LEU:O	1:A:552:VAL:HG22	2.14	0.47
1:A:789:LEU:HD13	1:A:981:MET:HE2	1.95	0.47
1:A:561:VAL:HG12	1:A:565:LEU:HD12	1.97	0.47
1:A:456:THR:HG22	1:A:585:PHE:CE2	2.51	0.46
1:A:548:ARG:O	1:A:552:VAL:HG13	2.15	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:886:THR:HG22	1:A:891:ILE:HD12	1.98	0.46
1:A:790:THR:HG21	1:A:912:PHE:CG	2.51	0.46
1:A:625:LEU:HD13	1:A:666:LEU:CD1	2.46	0.45
1:A:69:VAL:HG12	1:A:70:PHE:O	2.15	0.45
1:A:515:LEU:HD23	1:A:542:PHE:CG	2.52	0.45
1:A:214:LEU:HD11	1:A:236:PRO:HB2	1.98	0.45
1:A:432:LEU:HB3	1:A:483:VAL:HG13	1.99	0.44
1:A:511:LEU:HG	1:A:515:LEU:HD22	1.98	0.44
1:A:648:PHE:CD2	1:A:682:LEU:HD13	2.52	0.44
1:A:884:VAL:HG21	1:A:963:ALA:HB3	2.00	0.43
1:A:625:LEU:HD13	1:A:666:LEU:HD13	2.00	0.43
1:A:333:VAL:HG11	1:A:341:LEU:HD11	2.01	0.43
1:A:837:ILE:HG21	1:A:855:LEU:HD23	2.00	0.42
1:A:860:LYS:HG2	1:A:868:LEU:HD22	2.01	0.42
1:A:421:ALA:HB2	1:A:441:MET:HG2	2.01	0.42
1:A:339:MET:HE3	1:A:396:ALA:HB1	2.00	0.42
1:A:423:LEU:HD13	1:A:439:LEU:CD2	2.46	0.42
1:A:999:LYS:O	1:A:1003:ALA:N	2.53	0.42
1:A:151:ALA:HB2	1:A:674:GLY:HA2	2.01	0.42
1:A:358:VAL:HG22	1:A:377:PHE:CE2	2.56	0.41
1:A:396:ALA:HB2	1:A:418:ILE:HD11	2.03	0.41
2:B:501:GLN:HE22	2:B:524:ILE:HG23	1.86	0.41
1:A:534:LEU:O	1:A:538:VAL:HG23	2.20	0.41
1:A:587:PHE:HB3	1:A:592:VAL:HG11	2.02	0.40
1:A:26:LEU:HD13	1:A:62:LEU:HD11	2.03	0.40
1:A:336:ASP:HB3	1:A:339:MET:HE2	2.03	0.40
1:A:614:GLN:HE21	1:A:981:MET:CG	2.35	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	907/1072 (85%)	876 (97%)	31 (3%)	0	100	100
2	B	150/170 (88%)	150 (100%)	0	0	100	100
All	All	1057/1242 (85%)	1026 (97%)	31 (3%)	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	825/952 (87%)	815 (99%)	10 (1%)	63	82
2	B	146/161 (91%)	140 (96%)	6 (4%)	27	54
All	All	971/1113 (87%)	955 (98%)	16 (2%)	57	78

All (16) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	17	ASN
1	A	71	THR
1	A	115	SER
1	A	279	SER
1	A	475	LEU
1	A	494	LEU
1	A	515	LEU
1	A	586	SER
1	A	787	ASP
1	A	915	PHE
2	B	468[A]	GLU
2	B	468[B]	GLU
2	B	493	ILE
2	B	519	THR
2	B	539	VAL
2	B	579	GLN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (22)

such sidechains are listed below:

Mol	Chain	Res	Type
1	A	33	ASN
1	A	51	HIS
1	A	114	ASN
1	A	137	ASN
1	A	235	GLN
1	A	258	GLN
1	A	344	GLN
1	A	380	ASN
1	A	464	ASN
1	A	508	GLN
1	A	563	GLN
1	A	614	GLN
1	A	617	GLN
1	A	730	HIS
1	A	857	ASN
1	A	863	ASN
1	A	918	ASN
1	A	943	GLN
1	A	948	ASN
1	A	1014	HIS
2	B	501	GLN
2	B	572	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](#)

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	$\# Z > 2$
3	EO5	A	1101	-	45,46,46	1.37	7 (15%)	55,69,69	2.57	24 (43%)

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	EO5	A	1101	-	-	0/18/21/21	0/6/6/6

All (7) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	1101	EO5	C32-C30	-3.86	1.37	1.42
3	A	1101	EO5	C36-N35	-2.88	1.40	1.44
3	A	1101	EO5	C33-N35	-2.87	1.36	1.42
3	A	1101	EO5	C6-N5	-2.85	1.38	1.43
3	A	1101	EO5	C14-C13	-2.40	1.35	1.37
3	A	1101	EO5	C1-S2	2.38	1.80	1.75
3	A	1101	EO5	C20-N21	2.22	1.38	1.35

All (24) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	1101	EO5	C1-S2-N5	-6.37	99.39	106.56
3	A	1101	EO5	C32-N27-N26	-6.26	119.86	127.28
3	A	1101	EO5	C42-C16-N17	-6.05	120.19	126.64
3	A	1101	EO5	O3-S2-C1	4.55	115.46	108.26
3	A	1101	EO5	N19-C18-N17	-4.45	121.85	128.58
3	A	1101	EO5	C16-N15-C14	4.31	110.51	108.48
3	A	1101	EO5	C25-N26-N27	4.18	121.00	114.22
3	A	1101	EO5	C7-C6-N5	-4.00	110.21	119.92
3	A	1101	EO5	C12-C6-N5	3.60	128.66	119.92
3	A	1101	EO5	C29-C28-N27	3.40	108.82	106.78

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	1101	EO5	O4-S2-O3	3.25	123.23	118.87
3	A	1101	EO5	O3-S2-N5	-3.21	100.69	107.10
3	A	1101	EO5	C24-C22-C25	-3.04	107.17	111.43
3	A	1101	EO5	C7-C8-C13	-3.01	116.83	120.74
3	A	1101	EO5	N15-C16-N17	2.98	131.52	126.69
3	A	1101	EO5	O34-C33-C32	-2.89	120.45	126.38
3	A	1101	EO5	O4-S2-N5	-2.87	101.37	107.10
3	A	1101	EO5	C32-C33-N35	2.85	117.89	112.35
3	A	1101	EO5	C28-N27-N26	2.74	131.87	120.80
3	A	1101	EO5	N35-C25-N26	-2.43	122.12	124.12
3	A	1101	EO5	C9-C8-C13	2.39	123.85	120.74
3	A	1101	EO5	C18-N19-C20	2.19	122.50	115.24
3	A	1101	EO5	C42-C13-C14	2.15	107.08	105.68
3	A	1101	EO5	O4-S2-C1	2.03	111.47	108.26

There are no chirality outliers.

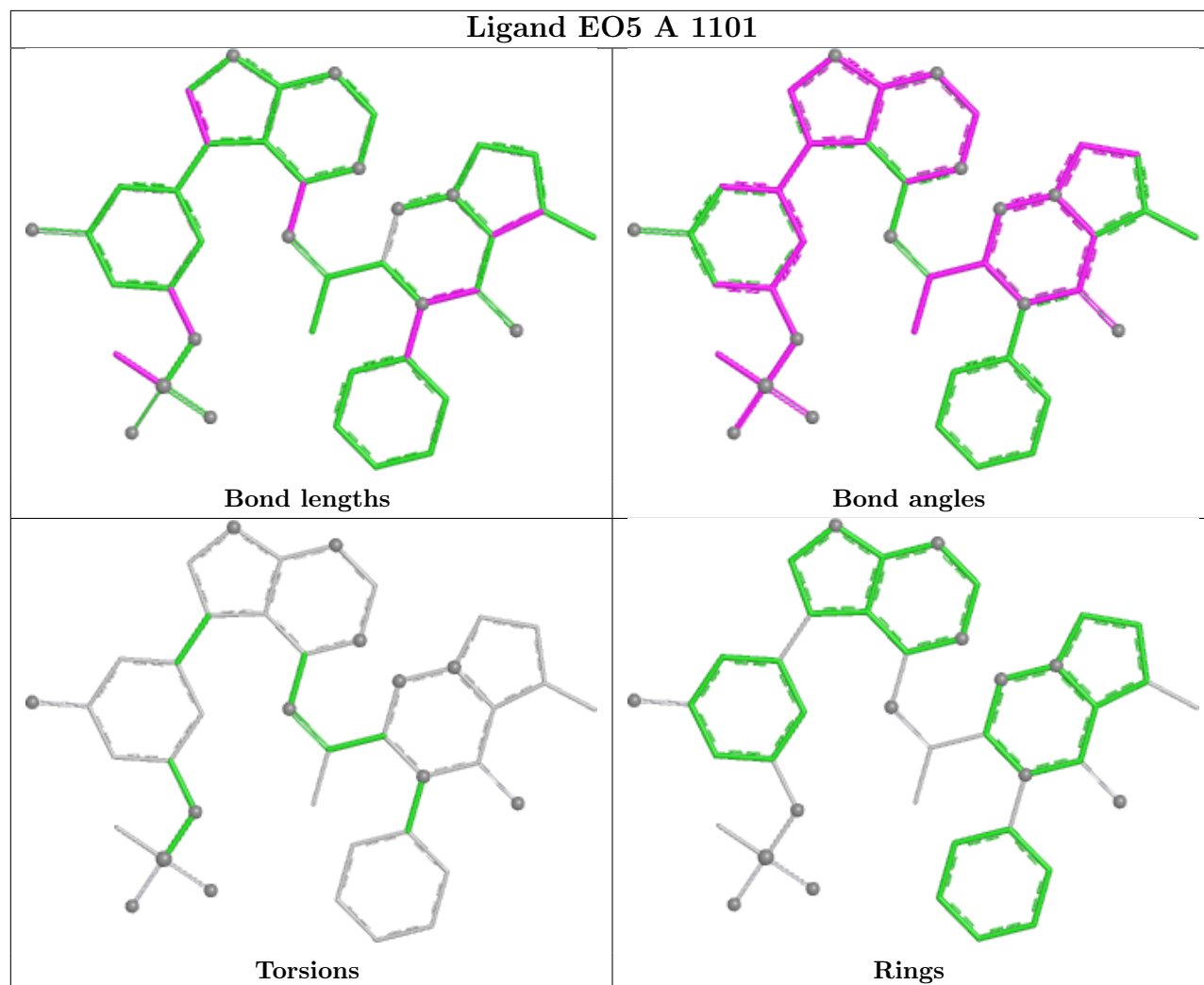
There are no torsion outliers.

There are no ring outliers.

1 monomer is involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	1101	EO5	2	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	925/1072 (86%)	0.02	17 (1%) 67 65	53, 90, 142, 196	47 (5%)
2	B	153/170 (90%)	-0.13	1 (0%) 84 83	42, 87, 112, 133	10 (6%)
All	All	1078/1242 (86%)	0.00	18 (1%) 69 66	42, 89, 141, 196	57 (5%)

All (18) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	186	PRO	4.0
1	A	919	PHE	3.5
1	A	384	LEU	3.1
1	A	250	LEU	2.9
1	A	254	TYR	2.8
1	A	236	PRO	2.6
1	A	555	TRP	2.6
1	A	471	LEU	2.6
1	A	865	GLY	2.5
1	A	867	ALA	2.4
1	A	864	PRO	2.3
2	B	508	TYR	2.3
1	A	119	LEU	2.2
1	A	157	LEU	2.2
1	A	175	ALA	2.1
1	A	344	GLN	2.1
1	A	498	SER	2.1
1	A	492	LEU	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](#)

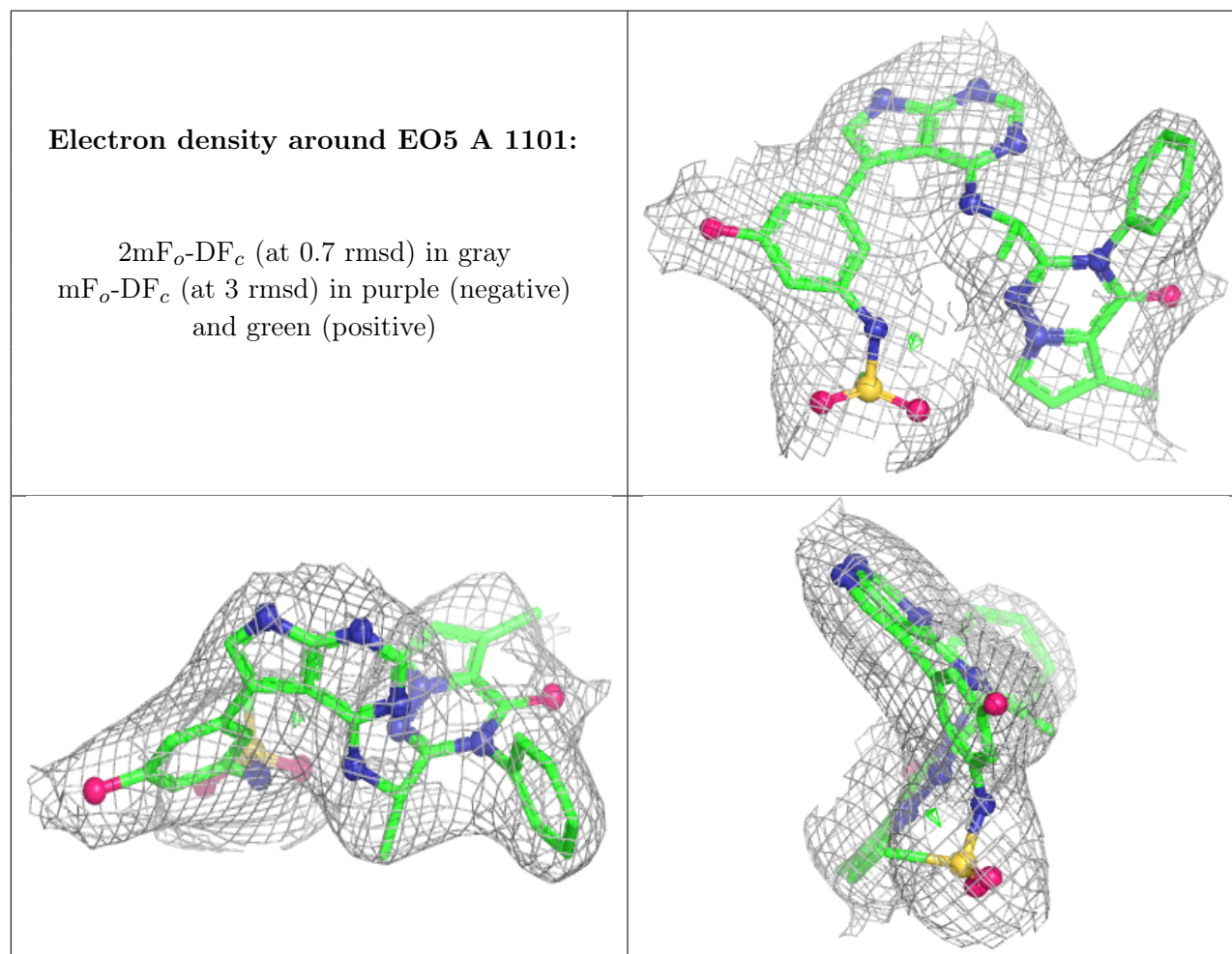
There are no oligosaccharides in this entry.

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	EO5	A	1101	41/41	0.95	0.08	44,76,104,122	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.