



Full wwPDB X-ray Structure Validation Report ⓘ

Jan 4, 2021 – 10:04 AM GMT

PDB ID : 6SQU
Title : Crystal structure of human SHIP2 catalytic domain in complex with 1,2,4 Dimer
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Deposited on : 2019-09-04
Resolution : 2.27 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 : 2.16
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) : 2.16

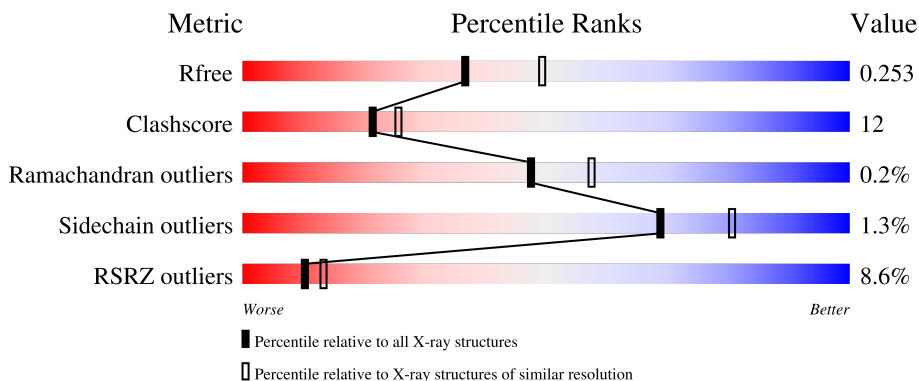
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.27 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	6980 (2.30-2.26)
Clashscore	141614	7711 (2.30-2.26)
Ramachandran outliers	138981	7597 (2.30-2.26)
Sidechain outliers	138945	7598 (2.30-2.26)
RSRZ outliers	127900	6849 (2.30-2.26)

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	316	
1	B	316	

2 Entry composition [i](#)

There are 3 unique types of molecules in this entry. The entry contains 4789 atoms, of which 8 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.

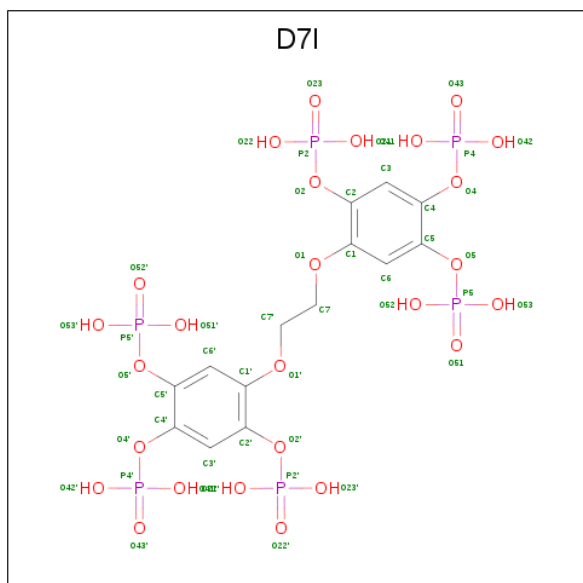
- Molecule 1 is a protein called Phosphatidylinositol 3,4,5-trisphosphate 5-phosphatase 2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	274	Total 2216	C 1420	N 376	O 411	S 9	0	0	0
1	B	306	Total 2472	C 1578	N 425	O 460	S 9	0	0	0

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	417	SER	-	expression tag	UNP O15357
A	418	MET	-	expression tag	UNP O15357
B	417	SER	-	expression tag	UNP O15357
B	418	MET	-	expression tag	UNP O15357

- Molecule 2 is 5,5'-(ethane-1,2-diylbis(oxy))bis(benzene-5,4,2,1,-tetrayl)hexakisphosphate (three-letter code: D7I) (formula: $C_{14}H_{20}O_{26}P_6$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
2	B	1	Total	C	H	O	P	0	0
			54	14	8	26	6		

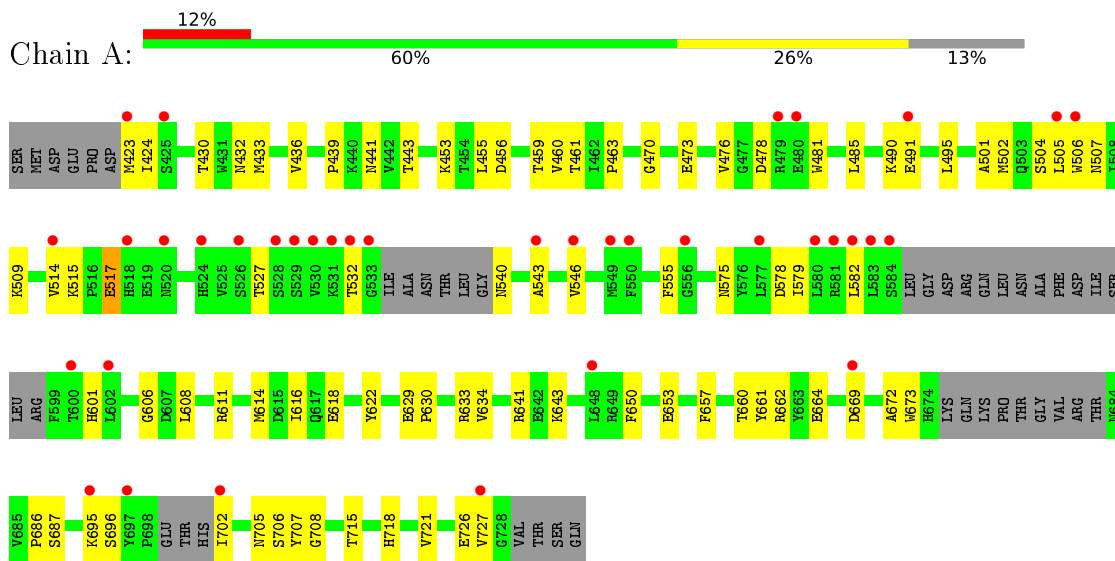
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	13	Total	O	0	0
			13	13		
3	B	34	Total	O	0	0
			34	34		

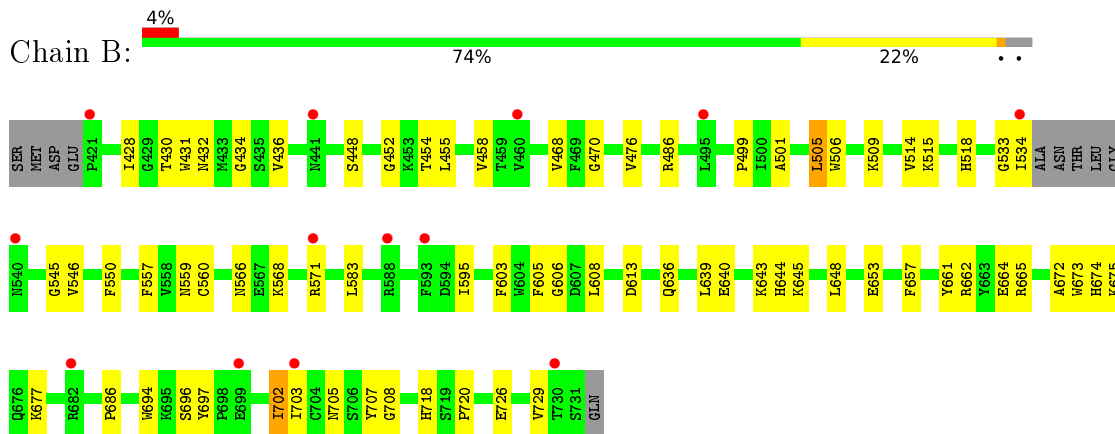
3 Residue-property plots [i](#)

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: Phosphatidylinositol 3,4,5-trisphosphate 5-phosphatase 2



- Molecule 1: Phosphatidylinositol 3,4,5-trisphosphate 5-phosphatase 2



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	44.41Å 60.19Å 113.96Å 90.00° 92.75° 90.00°	Depositor
Resolution (Å)	41.35 – 2.27 41.35 – 2.27	Depositor EDS
% Data completeness (in resolution range)	99.6 (41.35-2.27) 99.6 (41.35-2.27)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.53 (at 2.27Å)	Xtrriage
Refinement program	PHENIX 1.10.1_2155	Depositor
R, R_{free}	0.201 , 0.254 0.201 , 0.253	Depositor DCC
R_{free} test set	1345 reflections (4.82%)	wwPDB-VP
Wilson B-factor (Å ²)	49.6	Xtrriage
Anisotropy	0.299	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.37 , 54.9	EDS
L-test for twinning ²	$\langle L \rangle = 0.51$, $\langle L^2 \rangle = 0.34$	Xtrriage
Estimated twinning fraction	0.028 for h,-k,-l	Xtrriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	4789	wwPDB-VP
Average B, all atoms (Å ²)	66.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.42% 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: D7I

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	0.26	0/2273	0.43	0/3083
1	B	0.26	0/2535	0.45	0/3439
All	All	0.26	0/4808	0.44	0/6522

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	2216	0	2137	61	0
1	B	2472	0	2412	51	0
2	B	46	8	0	0	0
3	A	13	0	0	0	0
3	B	34	0	0	1	0
All	All	4781	8	4549	111	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 12.

All (111) 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:B:568:LYS:HD2	1:B:571:ARG:HD3	1.52	0.91
1:A:641:ARG:NH2	1:A:650:PHE:O	2.18	0.77
1:B:664:GLU:HG2	1:B:672:ALA:HB2	1.67	0.76
1:B:476:VAL:O	1:B:509:LYS:NZ	2.19	0.74
1:A:476:VAL:O	1:A:509:LYS:HE3	1.86	0.74
1:B:583:LEU:HD23	1:B:595:ILE:CD1	2.19	0.72
1:A:696:SER:HB3	1:A:702:ILE:HD12	1.72	0.71
1:A:478:ASP:OD1	1:A:509:LYS:NZ	2.20	0.70
1:B:583:LEU:HB3	1:B:595:ILE:HD11	1.74	0.70
1:B:452:GLY:O	1:B:454:THR:HG23	1.93	0.69
1:A:696:SER:HB3	1:A:702:ILE:CD1	2.23	0.69
1:B:703:ILE:HG22	1:B:726:GLU:HB2	1.75	0.68
1:B:550:PHE:CD1	1:B:729:VAL:HG11	2.29	0.67
1:A:543:ALA:HB2	1:A:579:ILE:HD13	1.78	0.66
1:A:664:GLU:HG2	1:A:672:ALA:HB2	1.78	0.66
1:A:527:THR:HG22	1:A:546:VAL:HG22	1.79	0.65
1:A:461:THR:O	1:A:463:PRO:HD3	1.98	0.64
1:B:675:LYS:HD2	1:B:677:LYS:HE3	1.78	0.63
1:B:694:TRP:CD1	1:B:702:ILE:HD13	2.34	0.63
1:A:439:PRO:HD3	1:A:715:THR:CG2	2.29	0.63
1:B:639:LEU:O	1:B:643:LYS:HG3	1.99	0.62
1:B:583:LEU:HB3	1:B:595:ILE:CD1	2.30	0.62
1:A:515:LYS:HE2	1:A:517:GLU:OE2	1.99	0.62
1:A:601:HIS:CD2	1:A:702:ILE:HD11	2.35	0.62
1:A:532:THR:HG21	1:A:575:ASN:ND2	2.16	0.61
1:A:506:TRP:HB2	1:A:540:ASN:HD22	1.66	0.61
1:A:473:GLU:HA	1:A:507:ASN:HB2	1.83	0.61
1:B:673:TRP:CE3	1:B:674:HIS:HB2	2.36	0.60
1:A:555:PHE:HE2	1:A:727:VAL:HG21	1.67	0.59
1:B:455:LEU:O	1:B:458:VAL:HG13	2.02	0.59
1:B:486:ARG:NH2	1:B:499:PRO:HG2	2.17	0.59
1:A:555:PHE:CE2	1:A:727:VAL:HG21	2.38	0.58
1:A:439:PRO:HD3	1:A:715:THR:HG21	1.86	0.57
1:A:643:LYS:HE3	1:B:613:ASP:HB3	1.86	0.57
1:B:514:VAL:HG12	1:B:515:LYS:O	2.05	0.57
1:B:514:VAL:CG1	1:B:518:HIS:HB2	2.34	0.56
1:B:505:LEU:HD22	1:B:506:TRP:CD1	2.39	0.56
1:A:507:ASN:OD1	1:A:507:ASN:N	2.38	0.56
1:A:481:TRP:CZ2	1:A:485:LEU:HD11	2.41	0.55
1:A:629:GLU:HG3	1:A:633:ARG:NH1	2.22	0.55
1:B:661:TYR:O	1:B:686:PRO:HA	2.07	0.55
1:A:614:MET:HE3	1:A:634:VAL:HG21	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:661:TYR:O	1:A:686:PRO:HA	2.07	0.54
1:A:657:PHE:CD1	1:A:708:GLY:HA2	2.43	0.53
1:B:657:PHE:CD1	1:B:708:GLY:HA2	2.43	0.53
1:B:653:GLU:HB3	1:B:707:TYR:CD2	2.43	0.53
1:A:608:LEU:HD23	1:A:608:LEU:N	2.24	0.52
1:A:618:GLU:HG3	1:A:622:TYR:CE2	2.45	0.52
1:A:423:MET:CE	1:A:423:MET:HA	2.40	0.52
1:B:560:CYS:SG	1:B:608:LEU:HD22	2.50	0.52
1:B:428:ILE:HD11	1:B:603:PHE:CG	2.45	0.51
1:A:430:THR:HA	1:A:470:GLY:O	2.10	0.51
1:B:430:THR:OG1	1:B:606:GLY:HA2	2.11	0.51
1:B:431:TRP:CE2	1:B:720:PRO:HG3	2.46	0.51
1:B:705:ASN:HD21	1:B:726:GLU:HG2	1.76	0.50
1:A:660:THR:HG21	1:A:721:VAL:CG2	2.42	0.50
1:B:545:GLY:HA2	1:B:557:PHE:O	2.11	0.50
1:B:550:PHE:HD1	1:B:729:VAL:HG11	1.73	0.50
1:B:448:SER:HB2	1:B:455:LEU:HD12	1.95	0.49
1:B:430:THR:HA	1:B:470:GLY:O	2.13	0.48
1:B:559:ASN:HB2	1:B:605:PHE:CE1	2.48	0.48
1:B:608:LEU:N	1:B:608:LEU:HD23	2.29	0.48
1:A:423:MET:HE2	1:A:423:MET:HA	1.97	0.47
1:A:436:VAL:HG21	1:A:715:THR:O	2.14	0.47
1:B:533:GLY:O	1:B:534:ILE:HG22	2.14	0.47
1:A:504:SER:HB2	1:A:509:LYS:HG2	1.96	0.47
1:A:578:ASP:O	1:A:582:LEU:HD13	2.15	0.47
1:A:614:MET:CE	1:A:634:VAL:HG21	2.44	0.47
1:A:432:ASN:HB3	1:A:718:HIS:CG	2.50	0.47
1:B:432:ASN:HB3	1:B:718:HIS:CG	2.50	0.46
1:B:673:TRP:CZ3	1:B:674:HIS:HB2	2.50	0.46
1:B:501:ALA:HB3	1:B:546:VAL:HG11	1.97	0.46
1:A:505:LEU:O	1:A:506:TRP:HB2	2.16	0.46
1:B:566:ASN:ND2	3:B:903:HOH:O	2.48	0.46
1:A:611:ARG:HD2	1:A:687:SER:CB	2.46	0.46
1:A:456:ASP:OD1	1:A:459:THR:HB	2.16	0.46
1:A:616:ILE:HG12	1:A:673:TRP:CE3	2.51	0.46
1:A:653:GLU:HB3	1:A:707:TYR:CD2	2.52	0.45
1:A:424:ILE:O	1:A:726:GLU:HA	2.16	0.45
1:B:486:ARG:CZ	1:B:499:PRO:HG2	2.47	0.45
1:A:629:GLU:HB3	1:A:630:PRO:HD3	1.99	0.45
1:B:603:PHE:CE1	1:B:702:ILE:HD11	2.52	0.44
1:A:433:MET:O	1:A:436:VAL:HG22	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:453:LYS:O	1:A:706:SER:HB2	2.17	0.44
1:A:455:LEU:HB3	1:A:460:VAL:CG1	2.47	0.44
1:B:436:VAL:HG22	1:B:665:ARG:HH21	1.82	0.44
1:A:441:ASN:OD1	1:A:443:THR:HG23	2.17	0.43
1:B:434:GLY:HA3	1:B:665:ARG:HH22	1.83	0.43
1:B:583:LEU:HD23	1:B:595:ILE:HD11	1.95	0.43
1:B:468:VAL:HG21	1:B:557:PHE:CE1	2.53	0.43
1:B:636:GLN:O	1:B:640:GLU:HG2	2.19	0.43
1:A:456:ASP:O	1:A:460:VAL:HG13	2.19	0.43
1:A:514:VAL:HG12	1:A:515:LYS:O	2.19	0.43
1:A:501:ALA:HB1	1:A:527:THR:CG2	2.49	0.43
1:A:543:ALA:HB2	1:A:579:ILE:CD1	2.46	0.42
1:A:501:ALA:HB3	1:A:546:VAL:HG11	2.00	0.42
1:A:650:PHE:CE2	1:A:695:LYS:HE2	2.54	0.42
1:B:661:TYR:CE1	1:B:662:ARG:HB2	2.54	0.42
1:A:478:ASP:HA	1:A:502:MET:HE1	2.01	0.42
1:A:490:LYS:HA	1:A:495:LEU:O	2.20	0.42
1:B:455:LEU:HB3	1:B:458:VAL:HG11	2.02	0.41
1:B:643:LYS:HB2	1:B:645:LYS:HG2	2.02	0.41
1:B:661:TYR:CD1	1:B:662:ARG:HB2	2.55	0.41
1:A:611:ARG:HD2	1:A:687:SER:OG	2.20	0.41
1:A:456:ASP:N	1:A:456:ASP:OD1	2.53	0.41
1:B:644:HIS:O	1:B:648:LEU:HD21	2.21	0.41
1:A:481:TRP:CE2	1:A:485:LEU:HD11	2.55	0.41
1:A:430:THR:OG1	1:A:606:GLY:HA2	2.21	0.41
1:A:455:LEU:HA	1:A:455:LEU:HD23	1.76	0.41
1:B:436:VAL:CG2	1:B:665:ARG:HH21	2.33	0.41
1:A:661:TYR:CZ	1:A:662:ARG:HB2	2.56	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	264/316 (84%)	252 (96%)	12 (4%)	0	100	100
1	B	302/316 (96%)	292 (97%)	9 (3%)	1 (0%)	41	49
All	All	566/632 (90%)	544 (96%)	21 (4%)	1 (0%)	47	57

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	702	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	247/287 (86%)	243 (98%)	4 (2%)	62	76
1	B	277/287 (96%)	274 (99%)	3 (1%)	73	84
All	All	524/574 (91%)	517 (99%)	7 (1%)	69	80

All (7) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	491	GLU
1	A	517	GLU
1	A	669	ASP
1	A	705	ASN
1	B	505	LEU
1	B	696	SER
1	B	697	TYR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (4) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	575	ASN
1	A	601	HIS
1	B	574	GLN

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Mol	Chain	Res	Type
1	B	705	ASN

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 monosaccharides in this entry.

5.6 Ligand geometry [i](#)

1 ligand is modelled in this entry.

There are no bond length outliers.

There are no bond angle outliers.

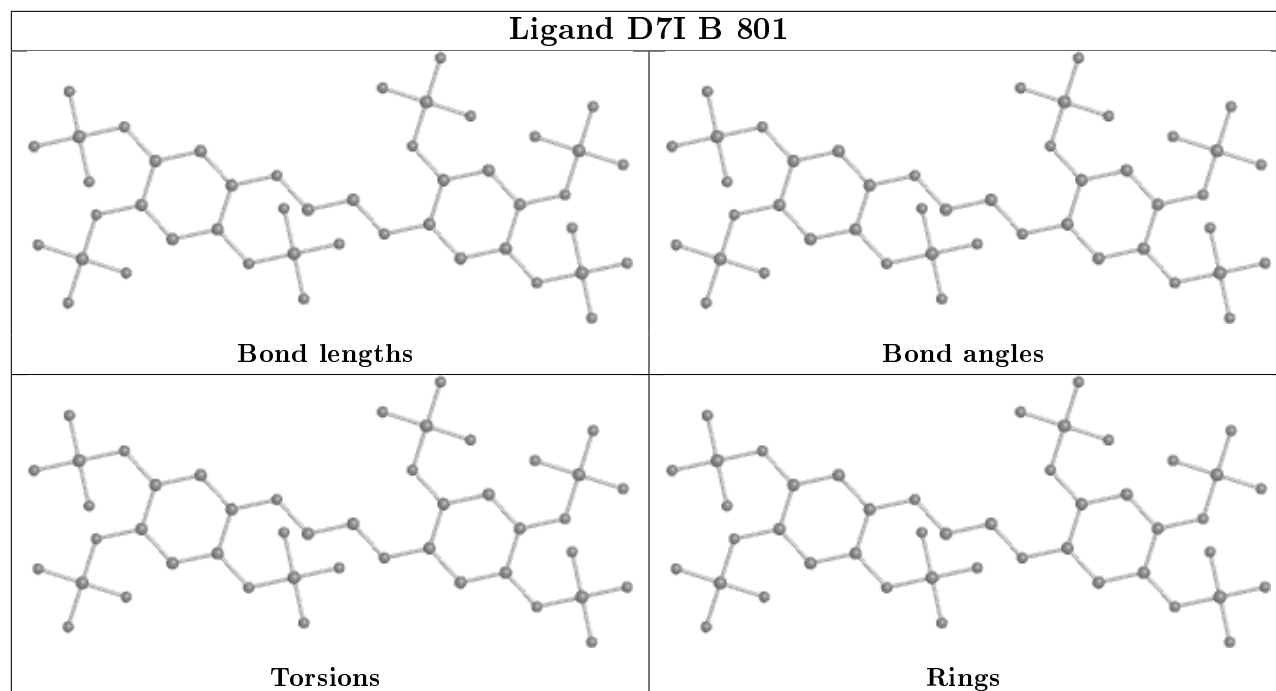
There are no chirality outliers.

There are no torsion outliers.

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	274/316 (86%)	0.87	37 (13%) 3 4	35, 72, 112, 133	0
1	B	306/316 (96%)	0.48	13 (4%) 36 41	34, 56, 89, 110	0
All	All	580/632 (91%)	0.66	50 (8%) 10 13	34, 62, 104, 133	0

All (50) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	583	LEU	6.5
1	A	697	TYR	5.8
1	A	581	ARG	5.5
1	A	526	SER	5.2
1	A	533	GLY	5.2
1	A	727	VAL	5.0
1	A	577	LEU	4.6
1	B	540	ASN	4.2
1	A	530	VAL	4.0
1	A	505	LEU	3.9
1	A	528	SER	3.9
1	A	582	LEU	3.5
1	A	479	ARG	3.3
1	A	669	ASP	3.2
1	B	441	ASN	3.2
1	A	549	MET	3.1
1	B	703	ILE	3.0
1	B	588	ARG	3.0
1	A	556	GLY	2.9
1	B	534	ILE	2.9
1	A	423	MET	2.9
1	A	546	VAL	2.8
1	A	531	LYS	2.8
1	A	506	TRP	2.8

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Mol	Chain	Res	Type	RSRZ
1	B	460	VAL	2.7
1	A	532	THR	2.6
1	B	495	LEU	2.6
1	A	584	SER	2.6
1	B	571	ARG	2.6
1	A	520	ASN	2.6
1	B	730	THR	2.5
1	B	682	ARG	2.5
1	A	518	HIS	2.5
1	A	425	SER	2.4
1	A	524	HIS	2.4
1	A	529	SER	2.4
1	B	593	PHE	2.4
1	A	550	PHE	2.3
1	A	695	LYS	2.3
1	A	648	LEU	2.3
1	B	421	PRO	2.2
1	A	491	GLU	2.2
1	A	514	VAL	2.2
1	A	600	THR	2.2
1	A	543	ALA	2.1
1	A	580	LEU	2.1
1	A	480	GLU	2.1
1	A	602	LEU	2.1
1	A	702	ILE	2.1
1	B	699	GLU	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](#)

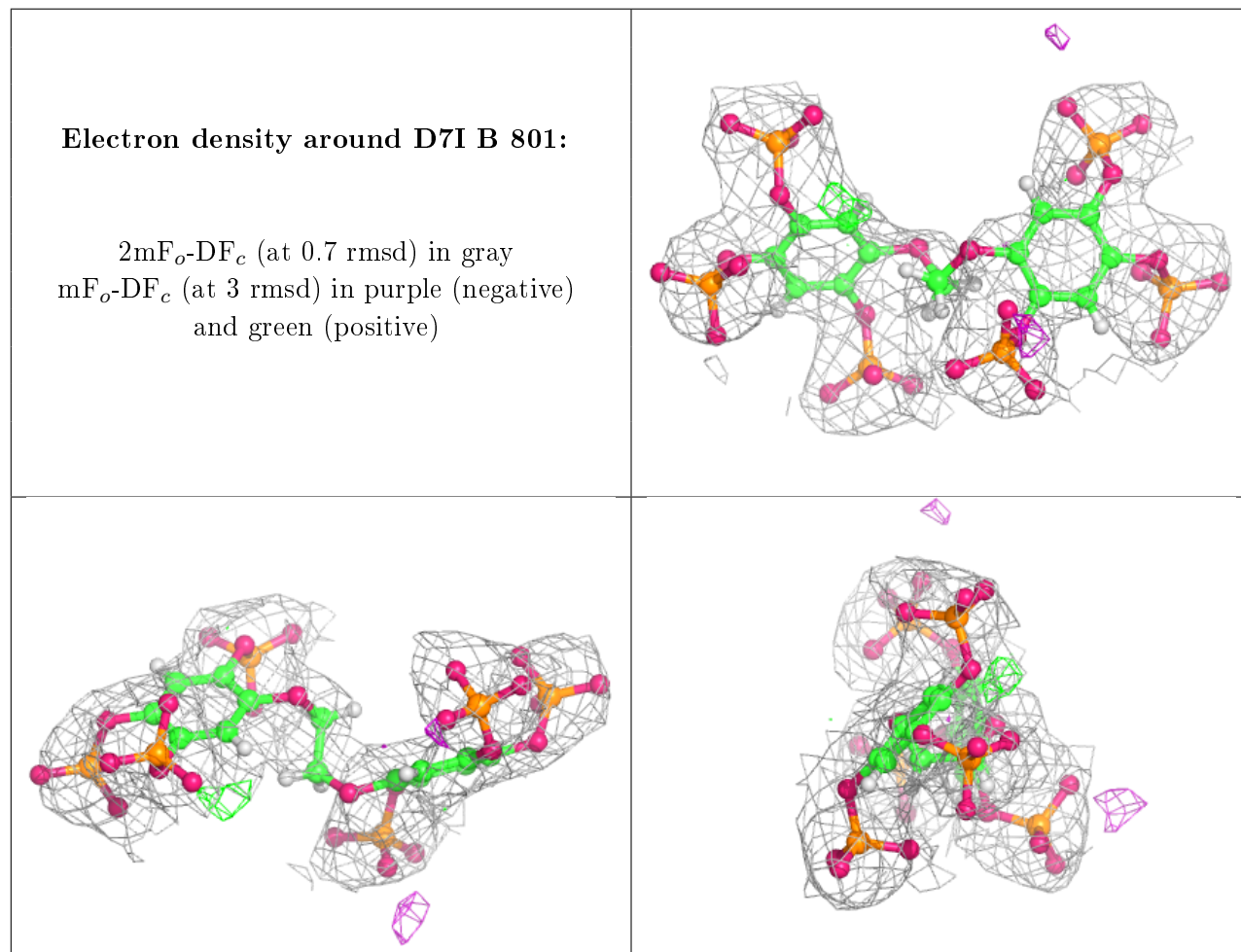
There are no monosaccharides in this entry.

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	D7I	B	801	46/46	0.89	0.17	75,101,124,124	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.