Full wwPDB X-ray Structure Validation Report (i)

May 22, 2020 – 11:49 am BST

PDB ID	:	5DYE
Title	:	CRYSTAL STRUCTURE OF THE FULL LENGTH S156E MUTANT OF HUMAN AQUAPORIN 5
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Deposited on	:	2015-09-24
Resolution	:	3.50 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 (i) symbol.

The following versions of software and data (see references (i)) 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	:	2.11
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)	:	2.11

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 3.50 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.
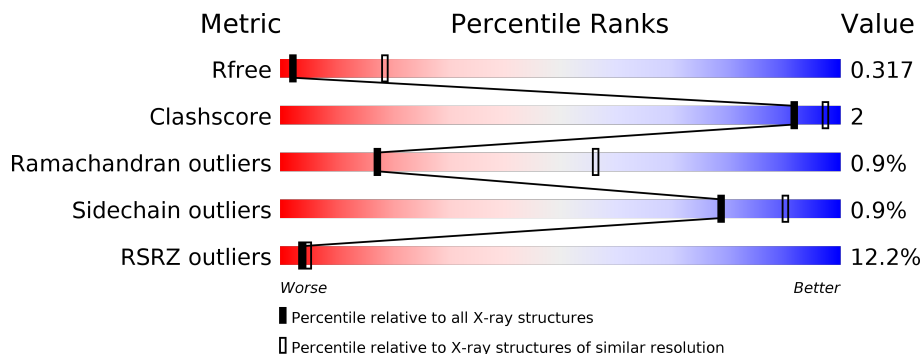
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	1659 (3.60-3.40)
Clashscore	141614	1036 (3.58-3.42)
Ramachandran outliers	138981	1005 (3.58-3.42)
Sidechain outliers	138945	1006 (3.58-3.42)
RSRZ outliers	127900	1559 (3.60-3.40)

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 on 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 <=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	265	
1	B	265	
1	C	265	
1	D	265	

2 Entry composition (i)

There are 2 unique types of molecules in this entry. The entry contains 7325 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 Aquaporin-5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	243	Total	C	N	O	S	0	0	0
			1804	1193	296	309	6			
1	B	243	Total	C	N	O	S	0	0	0
			1801	1190	294	311	6			
1	C	242	Total	C	N	O	S	0	0	0
			1793	1186	293	308	6			
1	D	253	Total	C	N	O	S	0	0	0
			1898	1249	311	332	6			

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	156	GLU	SER	engineered mutation	UNP P55064
B	156	GLU	SER	engineered mutation	UNP P55064
C	156	GLU	SER	engineered mutation	UNP P55064
D	156	GLU	SER	engineered mutation	UNP P55064

- Molecule 2 is O-[(S)-{[(2S)-2-(hexanoyloxy)-3-(tetradecanoyloxy)propyl]oxy}(hydroxy)phosphoryl]-D-serine (three-letter code: PS6) (formula: $C_{26}H_{50}NO_{10}P$).
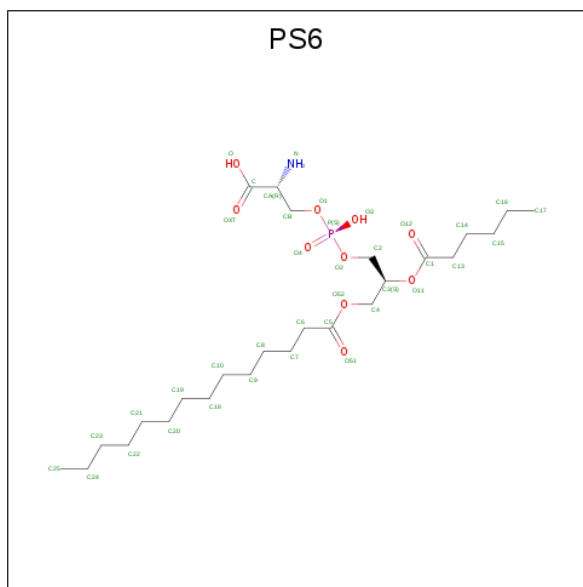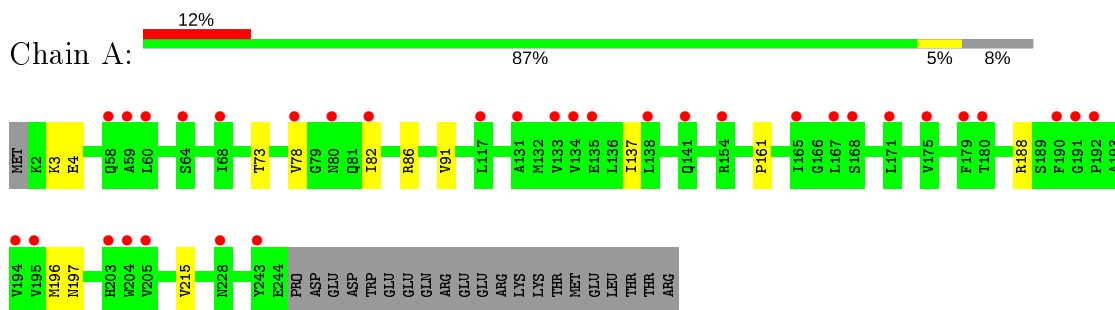
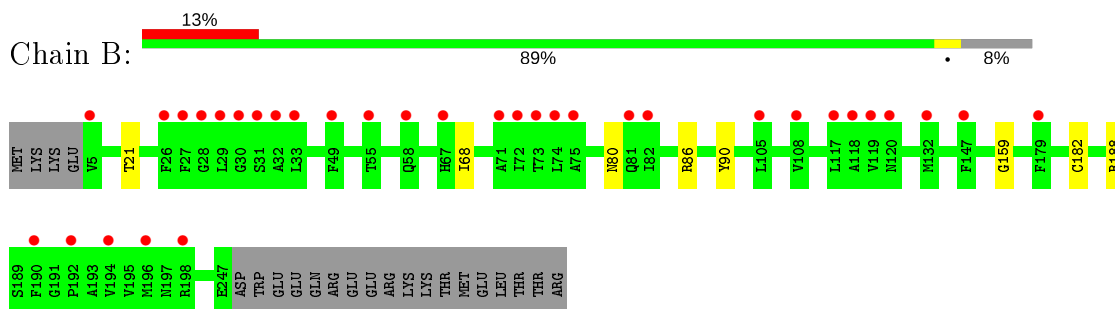| Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	N	O	P		
2	B	1	29	17	1	10	1	0	0

3 Residue-property plots ⓘ

These plots are drawn for all protein, RNA and DNA 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.
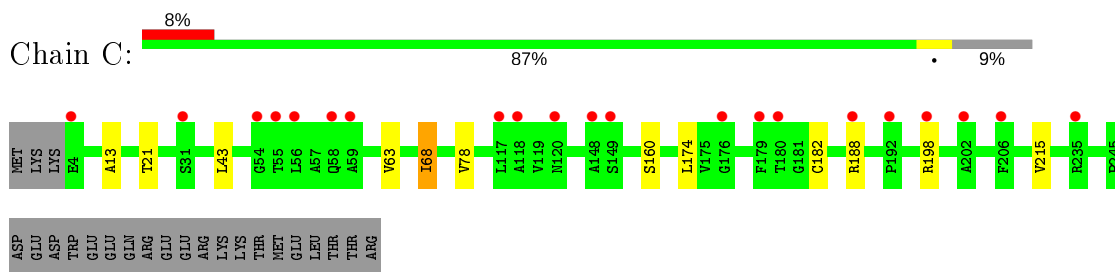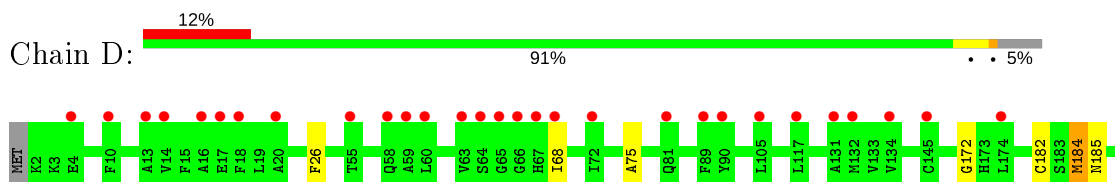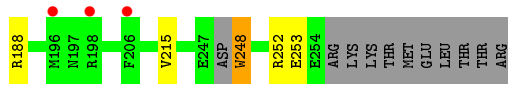
- Molecule 1: Aquaporin-5

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- Molecule 1: Aquaporin-5

R188 M196 N197 R198 F206 V215 E247 ASP W248 R252 E253 E254 ARG LYS LYS THR MET GLU LEU THR THR ARG

4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 3 1 2	Depositor
Cell constants a, b, c, α, β, γ	174.29Å 174.29Å 100.86Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	150.76 – 3.50 100.86 – 3.50	Depositor EDS
% Data completeness (in resolution range)	98.6 (150.76-3.50) 98.6 (100.86-3.50)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.85 (at 3.49Å)	Xtriage
Refinement program	REFMAC 5.8.0131	Depositor
R, R_{free}	0.279 , 0.311 0.281 , 0.317	Depositor DCC
R_{free} test set	1115 reflections (5.09%)	wwPDB-VP
Wilson B-factor (Å^2)	129.8	Xtriage
Anisotropy	0.498	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.35 , 154.0	EDS
L-test for twinning[2]	$< |L| > = 0.42, < L^2 > = 0.24$	Xtriage
Estimated twinning fraction	0.126 for -h,-k,l	Xtriage
F_o,F_c correlation	0.89	EDS
Total number of atoms	7325	wwPDB-VP
Average B, all atoms (Å^2)	163.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.81% of the height of the origin peak. No significant pseudotranslation is detected.*

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[1]Intensities estimated from amplitudes.
[2]Theoretical values of $< |L| >$, $< L^2 >$ 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: PS6

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	0.41	0/1847	0.54	0/2523
1	B	0.38	0/1845	0.53	0/2524
1	C	0.38	0/1837	0.50	0/2513
1	D	0.40	0/1944	0.55	0/2655
All	All	0.39	0/7473	0.53	0/10215

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	1

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	3	LYS	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	1804	0	1874	4	0
1	B	1801	0	1859	6	0
1	C	1793	0	1855	6	0
1	D	1898	0	1946	9	0
2	B	29	0	24	4	0
All	All	7325	0	7558	24	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 2.

All (24) 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:68:ILE:O	1:B:68:ILE:HG22	1.99	0.63
1:A:82:ILE:HG23	1:A:86:ARG:HD2	1.91	0.53
1:D:75:ALA:HA	1:D:215:VAL:HG22	1.92	0.52
1:D:68:ILE:O	1:D:185:ASN:ND2	2.40	0.51
1:B:159:GLY:C	2:B:301:PS6:O51	2.49	0.50
1:C:68:ILE:O	1:C:68:ILE:HG22	2.11	0.49
1:B:159:GLY:HA2	2:B:301:PS6:O51	2.13	0.49
1:C:21:THR:HA	1:C:68:ILE:HG23	1.93	0.49
1:D:252:ARG:HB3	1:D:253:GLU:CA	2.44	0.48
1:A:137:ILE:HG21	1:D:26:PHE:CE2	2.49	0.47
1:A:78:VAL:HG11	1:A:215:VAL:HG13	1.97	0.47
1:C:43:LEU:HA	1:C:174:LEU:HD21	1.97	0.47
1:D:252:ARG:HB3	1:D:253:GLU:HA	1.97	0.47
1:C:78:VAL:HG11	1:C:215:VAL:HG13	1.97	0.45
1:D:248:TRP:CE3	1:D:248:TRP:HA	2.53	0.44
2:B:301:PS6:H7A	1:C:160:SER:HB2	2.00	0.44
1:B:21:THR:HA	1:B:68:ILE:HG23	1.99	0.43
1:B:159:GLY:CA	2:B:301:PS6:O51	2.67	0.43
1:D:252:ARG:HB3	1:D:253:GLU:CB	2.48	0.42
1:A:73:THR:HG21	1:A:91:VAL:HG23	2.00	0.42
1:B:86:ARG:NH1	1:B:90:TYR:OH	2.52	0.41
1:D:172:GLY:HA3	1:D:184:MET:SD	2.61	0.40
1:D:248:TRP:HE3	1:D:248:TRP:HA	1.86	0.40
1:C:13:ALA:HA	1:C:63:VAL:HG12	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	241/265 (91%)	209 (87%)	29 (12%)	3 (1%)	13	50
1	B	241/265 (91%)	222 (92%)	17 (7%)	2 (1%)	19	58
1	C	240/265 (91%)	220 (92%)	18 (8%)	2 (1%)	19	58
1	D	251/265 (95%)	231 (92%)	18 (7%)	2 (1%)	19	58
All	All	973/1060 (92%)	882 (91%)	82 (8%)	9 (1%)	17	56

All (9) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	80	ASN
1	B	182	CYS
1	A	196	MET
1	A	197	ASN
1	C	182	CYS
1	D	182	CYS
1	D	184	MET
1	C	68	ILE
1	A	161	PRO

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	186/208 (89%)	184 (99%)	2 (1%)	73	88
1	B	186/208 (89%)	185 (100%)	1 (0%)	88	94

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles		
1	C	185/208 (89%)	183 (99%)	2 (1%)	73	88	
1	D	196/208 (94%)	194 (99%)	2 (1%)	76	88	
All	All	753/832 (90%)	746 (99%)	7 (1%)	78	90	

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

Mol	Chain	Res	Type
1	A	4	GLU
1	A	188	ARG
1	B	188	ARG
1	C	188	ARG
1	C	198	ARG
1	D	188	ARG
1	D	248	TRP

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (10) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	120	ASN
1	A	173	HIS
1	B	120	ASN
1	B	125	ASN
1	B	173	HIS
1	C	120	ASN
1	C	173	HIS
1	D	80	ASN
1	D	120	ASN
1	D	125	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 carbohydrates 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	#$|Z| > 2$
2	PS6	B	301	-	25,28,37	1.21	2 (8%)	27,35,44	1.73	5 (18%)

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	PS6	B	301	-	-	17/30/34/43	-

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	301	PS6	O11-C1	3.94	1.45	1.34
2	B	301	PS6	O52-C5	3.73	1.44	1.33

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	301	PS6	O52-C5-C6	4.26	125.29	111.91
2	B	301	PS6	O11-C1-C13	3.91	119.92	111.50
2	B	301	PS6	O52-C5-O51	-3.90	113.74	123.59
2	B	301	PS6	O1-CB-CA	2.82	110.51	108.06
2	B	301	PS6	O11-C3-C2	2.46	117.30	108.40

There are no chirality outliers.

All (17) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	B	301	PS6	CB-O1-P-O4
2	B	301	PS6	C13-C1-O11-C3
2	B	301	PS6	N-CA-CB-O1
2	B	301	PS6	C-CA-CB-O1
2	B	301	PS6	O12-C1-O11-C3
2	B	301	PS6	C2-O2-P-O1
2	B	301	PS6	CB-O1-P-O2
2	B	301	PS6	C1-C13-C14-C15
2	B	301	PS6	O2-C2-C3-C4
2	B	301	PS6	C2-C3-O11-C1
2	B	301	PS6	CA-CB-O1-P
2	B	301	PS6	C2-O2-P-O4
2	B	301	PS6	CB-O1-P-O3
2	B	301	PS6	O11-C1-C13-C14
2	B	301	PS6	C7-C8-C9-C10
2	B	301	PS6	O2-C2-C3-O11
2	B	301	PS6	O12-C1-C13-C14

There are no ring outliers.

1 monomer is involved in 4 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	301	PS6	4	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 then 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.

Ligand PS6 B 301

Bond lengths

Bond angles

Torsions

Rings
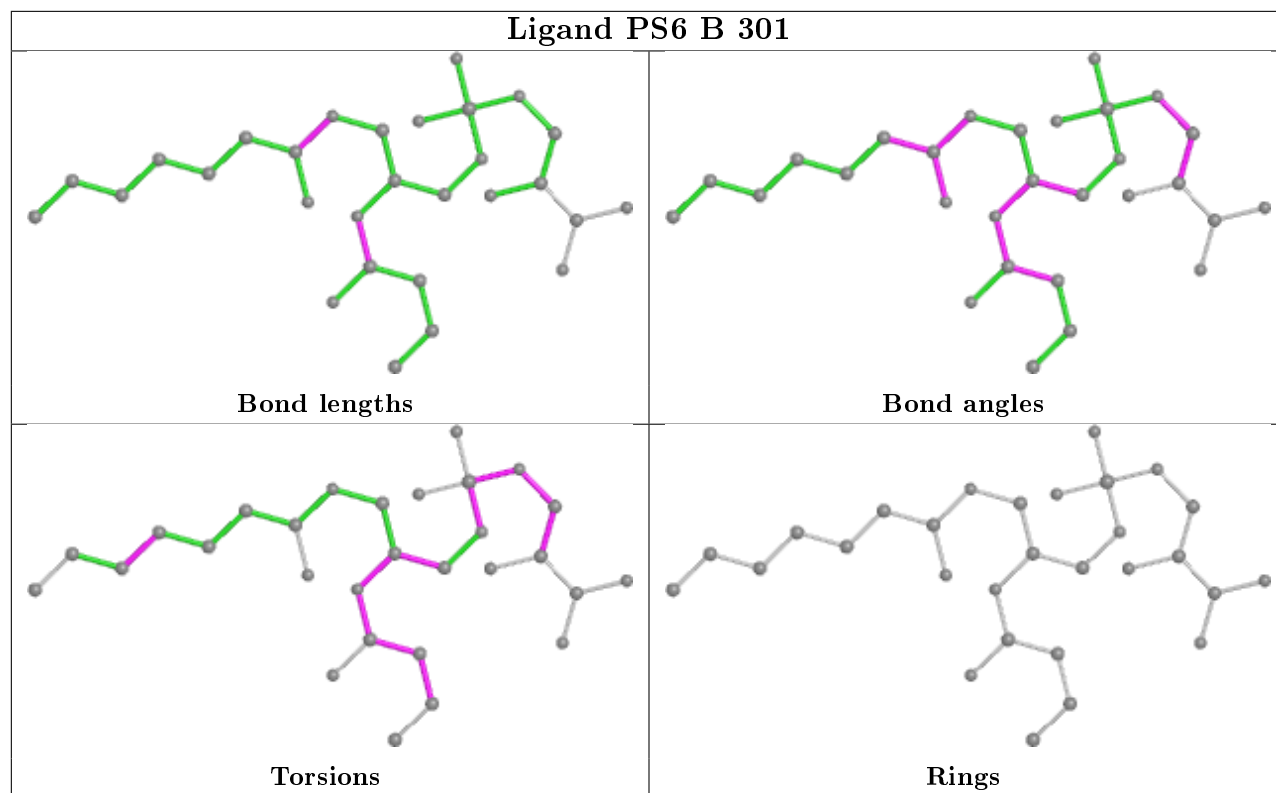
5.7 Other polymers (i)

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	243/265 (91%)	0.59	33 (13%)	3	4	110, 168, 222, 246	0
1	B	243/265 (91%)	0.61	34 (13%)	2	3	107, 155, 198, 235	0
1	C	242/265 (91%)	0.57	21 (8%)	10	11	103, 140, 196, 219	0
1	D	253/265 (95%)	0.55	32 (12%)	3	5	124, 170, 215, 255	0
All	All	981/1060 (92%)	0.58	120 (12%)	4	5	103, 159, 210, 255	0

All (120) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	118	ALA	9.0
1	D	66	GLY	6.7
1	A	80	ASN	6.5
1	D	105	LEU	6.4
1	B	117	LEU	6.4
1	A	134	VAL	5.9
1	A	179	PHE	5.4
1	C	58	GLN	5.3
1	B	26	PHE	5.0
1	B	29	LEU	4.9
1	D	117	LEU	4.7
1	A	135	GLU	4.7
1	D	132	MET	4.5
1	D	13	ALA	4.5
1	D	196	MET	4.5
1	B	31	SER	4.5
1	A	131	ALA	4.4
1	D	16	ALA	4.3
1	B	28	GLY	4.2
1	D	63	VAL	4.2
1	C	117	LEU	4.1

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Mol	Chain	Res	Type	RSRZ
1	A	192	PRO	4.1
1	B	32	ALA	4.1
1	C	120	ASN	4.1
1	A	228	ASN	4.0
1	D	14	VAL	4.0
1	D	64	SER	4.0
1	D	67	HIS	3.9
1	C	55	THR	3.9
1	D	10	PHE	3.9
1	D	17	GLU	3.8
1	A	133	VAL	3.8
1	D	55	THR	3.8
1	A	171	LEU	3.8
1	C	179	PHE	3.7
1	D	58	GLN	3.6
1	B	27	PHE	3.5
1	B	108	VAL	3.5
1	B	74	LEU	3.5
1	B	30	GLY	3.5
1	C	149	SER	3.4
1	D	68	ILE	3.4
1	C	180	THR	3.4
1	B	73	THR	3.3
1	D	174	LEU	3.3
1	D	198	ARG	3.3
1	D	145	CYS	3.3
1	C	188	ARG	3.3
1	A	168	SER	3.3
1	A	175	VAL	3.2
1	A	243	TYR	3.2
1	D	4	GLU	3.2
1	A	60	LEU	3.1
1	A	58	GLN	3.1
1	D	89	PHE	3.1
1	A	180	THR	3.0
1	A	138	LEU	3.0
1	A	203	HIS	3.0
1	B	198	ARG	3.0
1	C	54	GLY	3.0
1	D	90	TYR	2.9
1	A	59	ALA	2.9
1	B	71	ALA	2.9

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Mol	Chain	Res	Type	RSRZ
1	D	60	LEU	2.9
1	D	206	PHE	2.9
1	C	192	PRO	2.9
1	B	5	VAL	2.9
1	B	147	PHE	2.9
1	B	120	ASN	2.9
1	C	118	ALA	2.7
1	D	81	GLN	2.7
1	A	78	VAL	2.7
1	A	191	GLY	2.7
1	A	204	TRP	2.6
1	B	72	ILE	2.6
1	C	56	LEU	2.6
1	C	202	ALA	2.6
1	B	82	ILE	2.6
1	B	105	LEU	2.6
1	D	134	VAL	2.6
1	D	59	ALA	2.5
1	C	4	GLU	2.5
1	A	68	ILE	2.5
1	B	75	ALA	2.4
1	B	192	PRO	2.4
1	D	65	GLY	2.4
1	B	67	HIS	2.4
1	D	72	ILE	2.4
1	A	117	LEU	2.4
1	C	235	ARG	2.4
1	A	195	VAL	2.3
1	B	194	VAL	2.3
1	A	154	ARG	2.3
1	B	81	GLN	2.3
1	B	49	PHE	2.3
1	C	206	PHE	2.3
1	D	20	ALA	2.3
1	B	179	PHE	2.3
1	B	132	MET	2.3
1	A	205	VAL	2.2
1	A	190	PHE	2.2
1	C	148	ALA	2.2
1	B	58	GLN	2.2
1	A	167	LEU	2.2
1	B	196	MET	2.2

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Mol	Chain	Res	Type	RSRZ
1	A	64	SER	2.2
1	A	141	GLN	2.2
1	A	194	VAL	2.2
1	A	82	ILE	2.2
1	B	119	VAL	2.1
1	B	55	THR	2.1
1	C	59	ALA	2.1
1	C	198	ARG	2.1
1	B	33	LEU	2.1
1	D	131	ALA	2.1
1	C	31	SER	2.0
1	B	190	PHE	2.0
1	C	176	GLY	2.0
1	A	165	ILE	2.0
1	D	18	PHE	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.
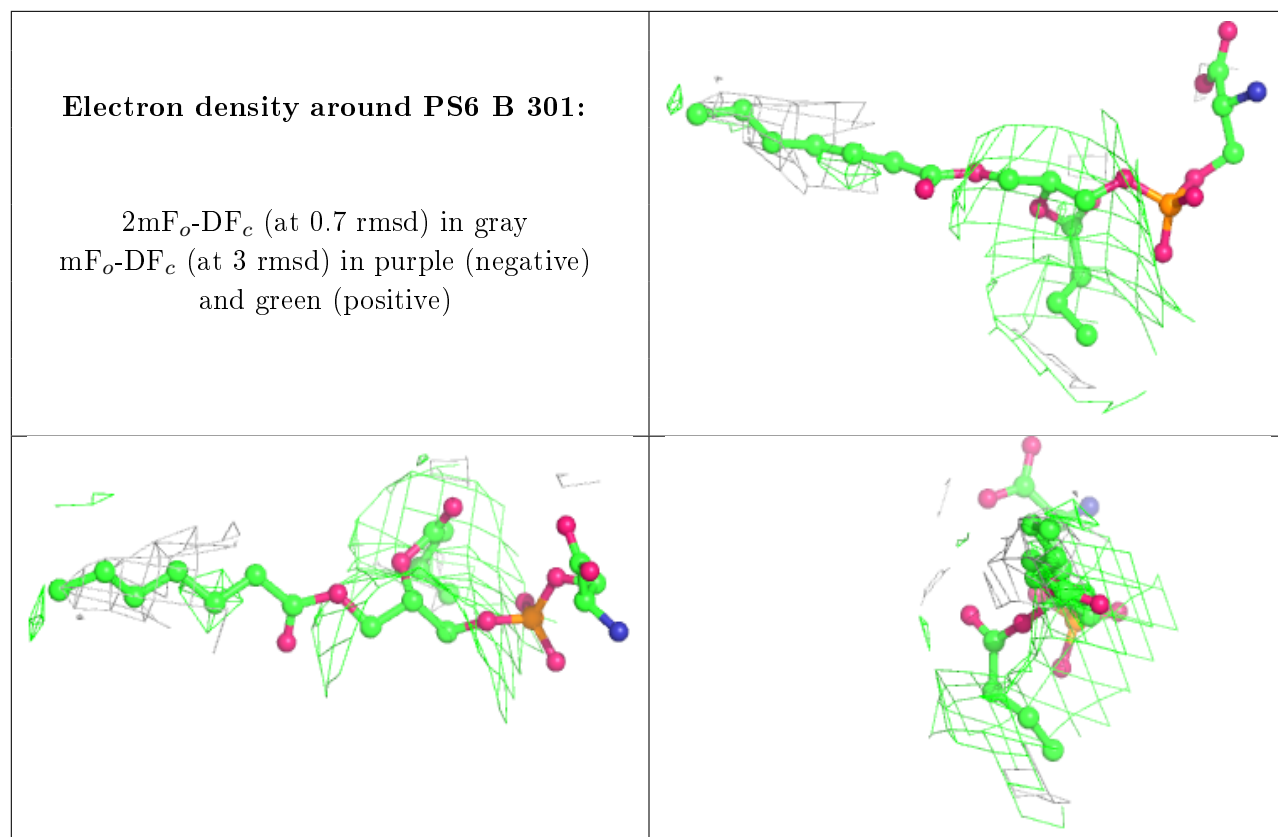
6.3 Carbohydrates (i)

There are no carbohydrates 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($Å^2$)	Q<0.9
2	PS6	B	301	29/38	0.75	0.32	119,164,217,227	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 PS6 B 301:

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

6.5 Other polymers (i)

There are no such residues in this entry.