

Full wwPDB X-ray Structure Validation Report (i)

Oct 15, 2023 – 11:35 AM EDT

PDB ID : 7UD6

Title : Designed Enzyme SH3-588 (Catechol O-methyltransferase catalytic domain

and Src homology 3 binding domain fusion)

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Deposited on : 2022-03-18

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 (i) 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 (1)) 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 : 2.36

buster-report : 1.1.7 (2018)

Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)

 $Refmac \quad : \quad 5.8.0158$

CCP4 : 7.0.044 (Gargrove)

Ideal geometry (proteins) : Engh & Huber (2001) Ideal geometry (DNA, RNA) : Parkinson et al. (1996)

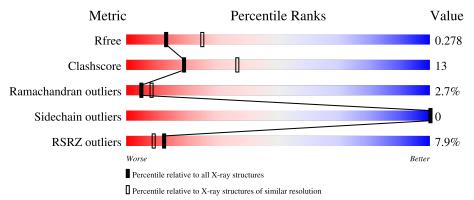
Validation Pipeline (wwPDB-VP) : 2.36

1 Overall quality at a glance (i)

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 $(\# \mathrm{Entries})$	$\begin{array}{c} {\rm Similar\ resolution} \\ (\#{\rm Entries},{\rm resolution\ range}({\rm \AA})) \end{array}$
R_{free}	130704	3163 (2.60-2.60)
Clashscore	141614	3518 (2.60-2.60)
Ramachandran outliers	138981	3455 (2.60-2.60)
Sidechain outliers	138945	3455 (2.60-2.60)
RSRZ outliers	127900	3104 (2.60-2.60)

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 <=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		
			7%		
1	A	293	63%	26%	• 10%



2 Entry composition (i)

There are 4 unique types of molecules in this entry. The entry contains 2098 atoms, of which 0 are hydrogens and 0 are deuteriums.

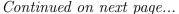
In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

• Molecule 1 is a protein called Tyrosine-protein kinase Fyn, Catechol O-methyltransferase.

Mol	Chain	Residues		\mathbf{At}	oms			ZeroOcc	AltConf	Trace
1	A	265	Total 2069	C 1324	N 337	O 396	S 12	0	0	0

There are 39 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1	MET	-	initiating methionine	UNP E5RFS5
A	26	VAL	GLN	engineered mutation	UNP E5RFS5
A	29	ARG	ASN	engineered mutation	UNP E5RFS5
A	37	LEU	GLU	engineered mutation	UNP E5RFS5
A	39	VAL	ARG	engineered mutation	UNP E5RFS5
A	46	GLN	THR	engineered mutation	UNP E5RFS5
A	58	GLY	-	linker	UNP E5RFS5
A	59	GLY	-	linker	UNP E5RFS5
A	60	SER	-	linker	UNP E5RFS5
A	61	GLY	-	linker	UNP E5RFS5
A	62	GLY	-	linker	UNP E5RFS5
A	63	SER	-	linker	UNP E5RFS5
A	64	GLY	-	linker	UNP E5RFS5
A	65	GLY	-	linker	UNP E5RFS5
A	73	GLU	ARG	engineered mutation	UNP P22734
A	74	PHE	TYR	engineered mutation	UNP P22734
A	77	LEU	GLN	engineered mutation	UNP P22734
A	78	VAL	ASN	engineered mutation	UNP P22734
A	93	GLN	THR	engineered mutation	UNP P22734
A	97	TYR	GLN	engineered mutation	UNP P22734
A	98	ALA	LYS	engineered mutation	UNP P22734
A	153	ILE	MET	engineered mutation	UNP P22734
A	157	CYS	TYR	engineered mutation	UNP P22734
A	278	GLY	-	expression tag	UNP P22734
A	279	GLU	-	expression tag	UNP P22734
A	280	ASN	-	expression tag	UNP P22734
A	281	LEU	-	expression tag	UNP P22734

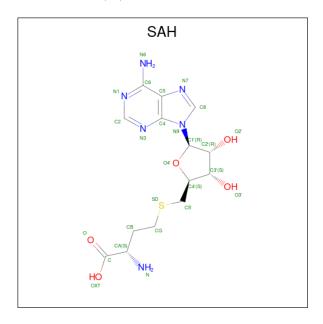




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Chain	Residue	Modelled	Actual	Comment	Reference
A	282	TYR	=	expression tag	UNP P22734
A	283	PHE	-	expression tag	UNP P22734
A	284	GLN	-	expression tag	UNP P22734
A	285	SER	-	expression tag	UNP P22734
A	286	ALA	-	expression tag	UNP P22734
A	287	GLY	1	expression tag	UNP P22734
A	288	HIS	-	expression tag	UNP P22734
A	289	HIS	-	expression tag	UNP P22734
A	290	HIS	-	expression tag	UNP P22734
A	291	HIS	-	expression tag	UNP P22734
A	292	HIS	-	expression tag	UNP P22734
A	293	HIS	-	expression tag	UNP P22734

• Molecule 2 is S-ADENOSYL-L-HOMOCYSTEINE (three-letter code: SAH) (formula: $C_{14}H_{20}N_6O_5S$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf		
2	Λ	1	Total	С	N	О	S	0	0
	A	1	26	14	6	5	1	U	0

• Molecule 3 is POTASSIUM ION (three-letter code: K) (formula: K) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total K 1 1	0	0



• Molecule 4 is water.

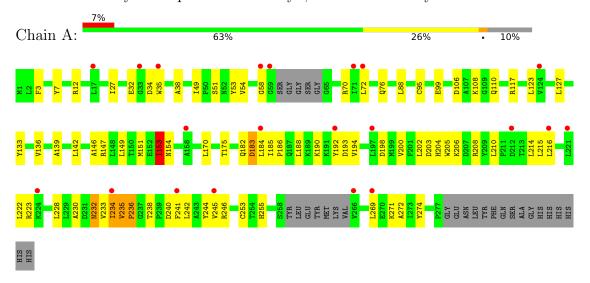
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	2	Total O 2 2	0	0



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: Tyrosine-protein kinase Fyn, Catechol O-methyltransferase





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 61 2 2	Depositor
Cell constants	68.88Å 68.88Å 302.70Å	Donositor
a, b, c, α , β , γ	90.00° 90.00° 120.00°	Depositor
Resolution (Å)	55.50 - 2.59	Depositor
rtesolution (A)	59.65 - 2.59	EDS
% Data completeness	99.2 (55.50-2.59)	Depositor
(in resolution range)	99.6 (59.65-2.59)	EDS
R_{merge}	0.11	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	2.01 (at 2.58Å)	Xtriage
Refinement program	PHENIX (1.18.2_3874: ???)	Depositor
D D.	0.247 , 0.278	Depositor
R, R_{free}	0.247 , 0.278	DCC
R_{free} test set	677 reflections (4.80%)	wwPDB-VP
Wilson B-factor (Å ²)	62.9	Xtriage
Anisotropy	0.653	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.34, 57.1	EDS
L-test for twinning ²	$ < L >=0.51, < L^2>=0.34$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	2098	wwPDB-VP
Average B, all atoms (Å ²)	88.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 5.50% of the height of the origin peak. No significant pseudotranslation is detected.

²Theoretical 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.



¹Intensities estimated from amplitudes.

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: SAH, K

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		
IVIOI		RMSZ	# Z > 5	RMSZ	# Z > 5	
1	A	0.50	0/2111	0.84	6/2864 (0.2%)	

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 maintain 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.

All (6) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\mathbf{Observed}(^o)$	$\operatorname{Ideal}({}^{o})$
1	A	183	ASP	CB-CG-OD1	-9.10	110.11	118.30
1	A	70	ARG	NE-CZ-NH1	-7.87	116.37	120.30
1	A	240	ASP	CB-CG-OD2	-7.83	111.25	118.30
1	A	88	LEU	CB-CG-CD2	-6.56	99.85	111.00
1	A	12	ARG	NE-CZ-NH2	-5.50	117.55	120.30
1	A	153	ILE	CG1-CB-CG2	-5.31	99.71	111.40

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	232	ASN	Peptide
1	A	235	VAL	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	2069	0	2049	54	0
2	A	26	0	19	4	0
3	A	1	0	0	0	0
4	A	2	0	0	0	0
All	All	2098	0	2068	54	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 13.

All (54) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	$\begin{array}{c} \text{Interatomic} \\ \text{distance } (\text{\AA}) \end{array}$	Clash overlap (Å)
1:A:3:PHE:HD2	1:A:54:VAL:HG12	1.46	0.80
1:A:245:VAL:HG12	1:A:253:CYS:SG	2.31	0.70
1:A:49:ILE:HD12	1:A:54:VAL:HG21	1.82	0.61
1:A:72:LEU:O	1:A:76:GLN:HG3	2.02	0.60
1:A:198:ASP:OD1	1:A:223:ARG:NH2	2.27	0.60
1:A:95:CYS:HA	1:A:99:GLU:O	2.03	0.58
1:A:149:LEU:HD23	1:A:175:THR:HB	1.85	0.58
1:A:234:ILE:HD11	1:A:255:HIS:CE1	2.39	0.58
1:A:242:LEU:HG	1:A:246:ARG:HD2	1.85	0.57
1:A:182:GLN:HB3	1:A:208:ARG:HH22	1.68	0.57
1:A:200:VAL:HB	1:A:228:LEU:HD13	1.87	0.57
1:A:232:ASN:HB3	1:A:236:PRO:HG2	1.86	0.57
1:A:27:ILE:HD13	1:A:38:ALA:HB2	1.88	0.56
1:A:202:LEU:HB2	1:A:230:ALA:HA	1.88	0.56
1:A:233:VAL:HG12	1:A:238:THR:OG1	2.07	0.54
1:A:222:LEU:HB3	1:A:274:TYR:CD2	2.44	0.53
1:A:182:GLN:NE2	1:A:183:ASP:OD2	2.42	0.53
1:A:108:LYS:HB3	1:A:269:LEU:HD21	1.90	0.51
1:A:34:ASP:HA	1:A:51:SER:HB3	1.92	0.51
1:A:7:TYR:HB2	1:A:53:TYR:CD1	2.46	0.51
1:A:153:ILE:HG13	2:A:301:SAH:C4	2.41	0.50
1:A:210:LEU:HD11	1:A:241:PHE:N	2.26	0.50
1:A:32:GLU:HB2	1:A:34:ASP:OD1	2.12	0.50

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Continuea from preo		Interatomic	Clash
Atom-1	Atom-2	$\operatorname{distance}\ (\text{\AA})$	overlap (Å)
1:A:205:TRP:HA	1:A:205:TRP:CE3	2.46	0.50
1:A:182:GLN:HB3	1:A:208:ARG:NH2	2.26	0.50
1:A:136:VAL:HG13	1:A:170:LEU:HD12	1.95	0.48
1:A:142:LEU:HB3	1:A:146:ALA:HB3	1.96	0.48
1:A:127:LEU:HD12	1:A:202:LEU:HD23	1.95	0.48
1:A:127:LEU:O	1:A:204:HIS:HB3	2.14	0.47
1:A:151:MET:HG2	1:A:184:LEU:HD13	1.97	0.47
1:A:106:ASP:O	1:A:110:GLN:HG2	2.15	0.47
1:A:139:ALA:HA	1:A:142:LEU:HG	1.97	0.47
1:A:192:TYR:O	1:A:194:VAL:N	2.48	0.46
1:A:117:ARG:HH11	1:A:117:ARG:HG2	1.80	0.46
1:A:153:ILE:HG13	2:A:301:SAH:N3	2.30	0.46
1:A:136:VAL:HG13	1:A:170:LEU:CD1	2.45	0.46
1:A:153:ILE:HB	1:A:154:ASN:H	1.61	0.46
1:A:186:PRO:HD3	1:A:215:LEU:HD21	1.98	0.46
1:A:208:ARG:HG3	1:A:208:ARG:HH11	1.80	0.45
1:A:32:GLU:C	1:A:34:ASP:H	2.20	0.45
1:A:208:ARG:HD2	1:A:208:ARG:HA	1.84	0.43
1:A:182:GLN:CB	1:A:208:ARG:HH22	2.30	0.43
1:A:235:VAL:HG12	1:A:236:PRO:CD	2.50	0.42
1:A:206:LYS:NZ	1:A:232:ASN:HB2	2.35	0.42
1:A:203:ASP:O	2:A:301:SAH:H5'2	2.20	0.42
1:A:253:CYS:HA	1:A:271:LYS:O	2.20	0.42
1:A:192:TYR:O	1:A:194:VAL:HG13	2.20	0.41
1:A:216:LEU:HB3	1:A:222:LEU:HD13	2.01	0.41
1:A:185:ILE:HB	1:A:186:PRO:HD3	2.02	0.41
1:A:133:TYR:HB3	2:A:301:SAH:O	2.21	0.41
1:A:214:LEU:HD11	1:A:244:TYR:CE1	2.56	0.41
1:A:123:LEU:HD12	1:A:147:ARG:HB2	2.03	0.40
1:A:188:LEU:HD23	1:A:188:LEU:HA	1.78	0.40
1:A:228:LEU:HB2	1:A:272:ALA:HB3	2.02	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	259/293 (88%)	231 (89%)	21 (8%)	7 (3%)	5 8

All (7) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	35	TRP
1	A	193	ASP
1	A	236	PRO
1	A	234	ILE
1	A	58	GLY
1	A	190	LYS
1	A	153	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			
1	A	223/245 (91%)	223 (100%)	0	100	100

There are no protein residues with a non-rotameric sidechain to report.

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	182	GLN
1	A	204	HIS

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)

Of 2 ligands modelled in this entry, 1 is monoatomic - leaving 1 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).

Mal	Type	rpe Chain	Pos	Link	Bond lengths			Bond angles		
MIOI	туре	Chain	nes	Lilik	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	SAH	A	301	-	24,28,28	1.24	3 (12%)	25,40,40	1.60	5 (20%)

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	SAH	A	301	-	-	3/11/31/31	0/3/3/3

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	Observed(A)	$\operatorname{Ideal}(\text{\AA})$
2	A	301	SAH	C2-N3	4.13	1.38	1.32
2	A	301	SAH	C2-N1	2.51	1.38	1.33
2	A	301	SAH	OXT-C	-2.11	1.23	1.30

All (5) bond angle outliers are listed below:

					()	$\operatorname{Ideal}({}^{o})$
2	A 301	SAH	N3-C2-N1	-5.54	120.02	128.68

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Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\mathbf{Observed}(^o)$	$\operatorname{Ideal}({}^{o})$
2	A	301	SAH	C5'-SD-CG	-2.44	94.95	102.27
2	A	301	SAH	OXT-C-O	-2.35	118.76	124.09
2	A	301	SAH	OXT-C-CA	2.06	120.39	113.38
2	A	301	SAH	C2'-C3'-C4'	2.02	106.56	102.64

There are no chirality outliers.

All (3) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	301	SAH	N-CA-CB-CG
2	A	301	SAH	O4'-C4'-C5'-SD
2	A	301	SAH	C3'-C4'-C5'-SD

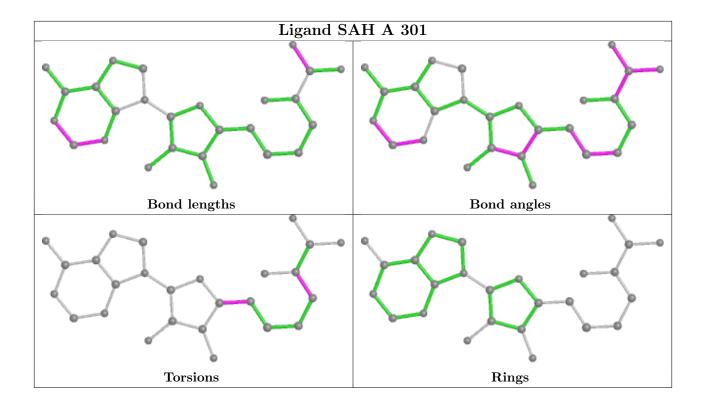
There are no ring outliers.

1 monomer is involved in 4 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	301	SAH	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.





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, 95^{th} 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	$265/293 \ (90\%)$	0.97	21 (7%) 12 9	59, 83, 125, 145	0

All (21) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	192	TYR	5.2
1	A	241	PHE	4.7
1	A	58	GLY	4.6
1	A	216	LEU	4.4
1	A	245	VAL	4.3
1	A	59	GLY	4.1
1	A	266	VAL	3.8
1	A	269	LEU	3.5
1	A	224	LYS	2.6
1	A	17	LEU	2.6
1	A	158	ALA	2.5
1	A	35	TRP	2.4
1	A	71	ILE	2.4
1	A	221	LEU	2.4
1	A	33	GLY	2.3
1	A	72	LEU	2.3
1	A	212	ASP	2.2
1	A	124	VAL	2.2
1	A	234	ILE	2.2
1	A	197	LEU	2.1
1	A	184	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)

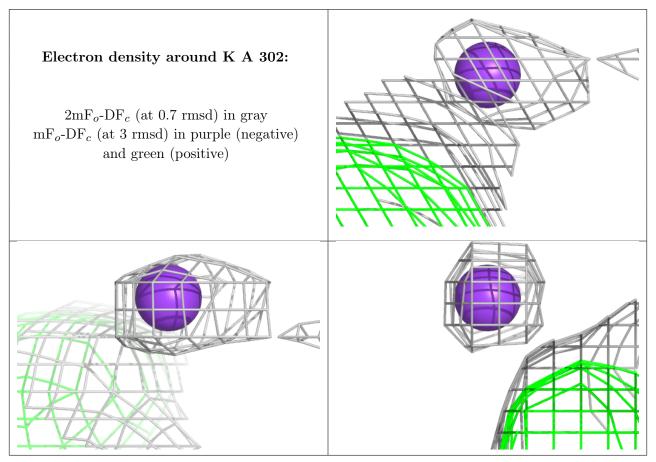
There are no monosaccharides in this entry.

6.4 Ligands (i)

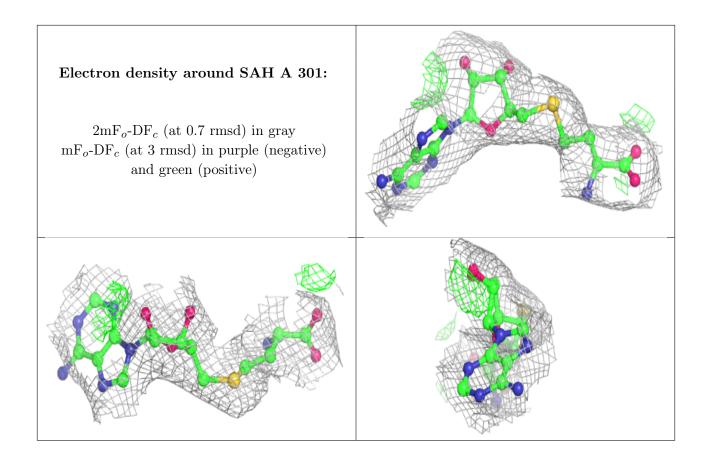
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q<0.9
3	K	A	302	1/1	0.89	0.37	117,117,117,117	0
2	SAH	A	301	26/26	0.93	0.16	80,99,107,111	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.

