

Full wwPDB X-ray Structure Validation Report (i)

May 16, 2020 - 04:38 am BST

PDB ID	:	4CL6
Title	:	Crystal Structure of 3-hydroxydecanoyl-Acyl Carrier Protein Dehydratase
		(FabA) from Pseudomonas aeruginosa in complex with N-(4- Chlorobenzyl)-3
		-(2-furyl)-1H-1,2,4-triazol-5-amine
Authors	:	Moynie, L.; McMahon, S.A.; Duthie, F.G.; Naismith, J.H.
Deposited on	:	2014-01-13
$\operatorname{Resolution}$:	2.41 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 (1)) were used in the production of this report:

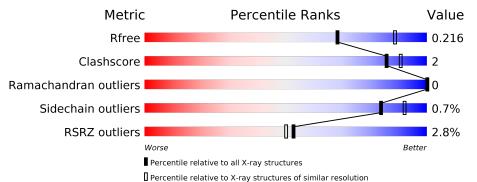
Xtriage (Phenix) : EDS : buster-report : Percentile statistics : Refmac : CCP4 : Ideal geometry (proteins) : Ideal geometry (DNA, RNA) :	 1.8.5 (274361), CSD as541be (2020) 1.13 2.11 1.1.7 (2018) 20191225.v01 (using entries in the PDB archive December 25th 2019) 5.8.0158 7.0.044 (Gargrove) Engh & Huber (2001) Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) :	2.11

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 2.41 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	$egin{array}{c} { m Whole \ archive} \ (\#{ m Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries},{ m resolution\ range}({ m \AA}))$
R _{free}	130704	4647(2.44-2.40)
Clashscore	141614	5161(2.44-2.40)
Ramachandran outliers	138981	5073(2.44-2.40)
Sidechain outliers	138945	5074(2.44-2.40)
RSRZ outliers	127900	4543 (2.44-2.40)

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	Λ	171	2%	
	A	1/1	91%	8% •
1	В	171	95%	5% •
			5%	
1	C	171	95%	5%
	_		3%	
1	D	171	97%	••
			2%	
1	E	171	93%	6% •



2 Entry composition (i)

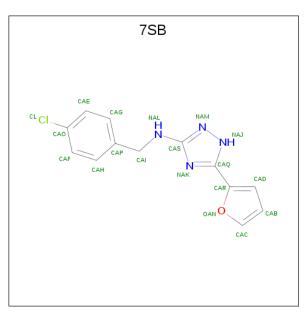
There are 3 unique types of molecules in this entry. The entry contains 6917 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 3-HYDROXYDECANOYL-[ACYL-CARRIER-PROTEIN] DEHYDRATASE.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	А	168	Total	С	Ν	Ο	S	0	0	0
	Л	100	1295	829	224	235	7	0	0	0
1	В	170	Total	С	Ν	Ο	S	0	0	0
	D	170	1312	838	229	238	7	0	0	
1	С	171	Total	С	Ν	Ο	S	0	0	0
	U	111	1320	843	230	239	8	0	0	U
1	р	170	Total	С	Ν	Ο	S	0	0	0
	D	170	1312	838	229	238	7	0	0	0
1	Г	170	Total	С	Ν	Ο	S	0	0	0
		E 170	1312	838	229	238	7		0	0

• Molecule 2 is N-(4-chlorobenzyl)-5-(furan-2-yl)-1H-1,2,4-triazol-3-amine (three-letter code: 7SB) (formula: $C_{13}H_{11}ClN_4O$).





Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	
2	Λ	1	Total	С	Cl	Ν	Ο	0	0
	A	L	19	13	1	4	1	0	0
2	В	1	Total	С	Cl	Ν	Ο	0	0
	D	T	19	13	1	4	1	0	0
2	C	1	Total	С	Cl	Ν	Ο	0	0
	U		19	13	1	4	1	0	U
2	П	1	Total	С	Cl	Ν	Ο	0	0
	D	1	19	13	1	4	1	0	0
2	Е	1	Total	С	Cl	Ν	Ο	0	0
	L L		19	13	1	4	1	0	0

• Molecule 3 is water.

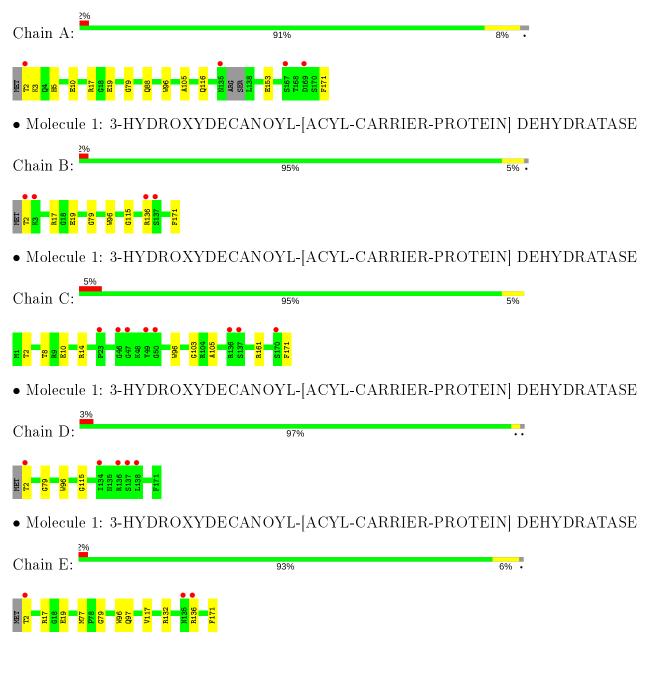
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	А	80	Total O 80 80	0	0
3	В	53	Total O 53 53	0	0
3	С	51	Total O 51 51	0	0
3	D	35	Total O 35 35	0	0
3	Е	52	$\begin{array}{cc} \text{Total} & \text{O} \\ 52 & 52 \end{array}$	0	0



3 Residue-property plots (i)

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: 3-HYDROXYDECANOYL-[ACYL-CARRIER-PROTEIN] DEHYDRATASE





4 Data and refinement statistics (i)

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants	115.61Å 142.87Å 77.85Å	Depositor
a, b, c, α , β , γ	90.00° 116.47° 90.00°	Depositor
Resolution (Å)	43.51 - 2.41	Depositor
Resolution (A)	43.51 - 2.41	EDS
% Data completeness	97.4 (43.51-2.41)	Depositor
(in resolution range)	$97.4 \ (43.51 - 2.41)$	EDS
R _{merge}	0.07	Depositor
R _{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$2.33 (at 2.39 \text{\AA})$	Xtriage
Refinement program	REFMAC 5.7.0029	Depositor
D D.	0.182 , 0.212	Depositor
R, R_{free}	0.187 , 0.216	DCC
R_{free} test set	2153 reflections (5.04%)	wwPDB-VP
Wilson B-factor (Å ²)	38.1	Xtriage
Anisotropy	0.206	Xtriage
Bulk solvent $k_{sol}(e/Å^3), B_{sol}(Å^2)$	0.32 , 29.9	EDS
L-test for twinning ²	$ \langle L \rangle = 0.49, \langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	6917	wwPDB-VP
Average B, all atoms $(Å^2)$	43.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 3.80% of the height of the origin peak. No significant pseudotranslation is detected.

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.



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: $7\mathrm{SB}$

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		
	Cham	RMSZ # Z > 5		RMSZ	# Z > 5	
1	А	0.60	0/1325	0.66	0/1790	
1	В	0.58	0/1343	0.67	0/1815	
1	С	0.51	0/1351	0.66	0/1825	
1	D	0.53	0/1343	0.67	0/1815	
1	Е	0.63	0/1343	0.70	0/1815	
All	All	0.57	0/6705	0.67	0/9060	

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	А	1295	0	1278	11	0
1	В	1312	0	1297	5	0
1	С	1320	0	1309	6	0
1	D	1312	0	1297	3	0
1	Е	1312	0	1297	7	0
2	А	19	0	11	1	0
2	В	19	0	11	4	0
2	С	19	0	11	0	0



Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	D	19	0	11	3	0
2	Е	19	0	11	1	0
3	А	80	0	0	3	0
3	В	53	0	0	0	0
3	С	51	0	0	1	0
3	D	35	0	0	0	0
3	Е	52	0	0	3	0
All	All	6917	0	6533	29	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 (29) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom 1		Interatomic	Clash
Atom-1	Atom-2	${ m distance}~({ m \AA})$	overlap (Å)
1:C:161:ARG:HD2	3:C:2047:HOH:O	1.91	0.70
1:E:132:ARG:HD2	3:E:2044:HOH:O	2.06	0.55
1:E:97:GLN:HG2	3:E:2001:HOH:O	2.07	0.54
1:D:79:GLY:H	2:D:501:7SB:HNAJ	1.57	0.52
1:B:17:ARG:NH1	1:B:19:GLU:OE1	2.43	0.51
1:A:5:HIS:HE1	3:A:2020:HOH:O	1.92	0.51
1:E:17:ARG:NH1	1:E:19:GLU:OE1	2.45	0.50
1:A:79:GLY:H	2:A:501:7SB:HNAJ	1.61	0.49
1:C:2:THR:HA	1:C:96:TRP:CZ2	2.47	0.49
1:E:2:THR:HA	1:E:96:TRP:CZ2	2.48	0.49
1:A:17:ARG:NH1	1:A:19:GLU:OE1	2.48	0.47
1:C:8:THR:OG1	1:C:10:GLU:HG2	2.15	0.45
1:E:79:GLY:H	2:E:501:7SB:HNAJ	1.63	0.45
1:A:105:ALA:N	2:B:501:7SB:HAD	2.31	0.44
1:B:2:THR:HA	1:B:96:TRP:CZ2	2.52	0.44
1:C:105:ALA:O	2:D:501:7SB:HAD	2.18	0.43
1:B:79:GLY:H	2:B:501:7SB:HNAJ	1.66	0.43
1:C:171:PHE:OXT	1:D:115:GLY:HA2	2.19	0.43
1:E:132:ARG:CD	3:E:2044:HOH:O	2.66	0.43
1:A:116:GLN:HG2	1:B:171:PHE:HB3	2.00	0.43
1:A:2:THR:HA	1:A:96:TRP:CZ2	2.54	0.42
1:A:105:ALA:O	2:B:501:7SB:HAD	2.19	0.42
1:A:10:GLU:HG2	3:A:2002:HOH:O	2.19	0.42
1:A:153:GLU:HG2	3:A:2077:HOH:O	2.18	0.42
1:A:171:PHE:OXT	1:B:115:GLY:HA2	2.20	0.42
1:D:2:THR:HA	1:D:96:TRP:CZ2	2.54	0.41



Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)	
1:C:103:GLY:HA3	2:D:501:7SB:CAH	2.51	0.41	
1:E:77:MET:HB3	1:E:117:VAL:HB	2.03	0.41	
1:A:88:GLN:O	2:B:501:7SB:HAE	2.22	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	Perce	entiles
1	А	164/171~(96%)	160~(98%)	4 (2%)	0	100	100
1	В	168/171~(98%)	163~(97%)	5(3%)	0	100	100
1	С	169/171~(99%)	164 (97%)	5(3%)	0	100	100
1	D	168/171~(98%)	163~(97%)	5(3%)	0	100	100
1	Е	168/171~(98%)	163 (97%)	5(3%)	0	100	100
All	All	837/855~(98%)	813 (97%)	24 (3%)	0	100	100

There are no Ramachandran outliers to report.

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	135/138~(98%)	134 (99%)	1 (1%)	84 92		



Mol	Chain	Analysed	Rotameric	Outliers	Perce	ntiles
1	В	137/138~(99%)	136~(99%)	1 (1%)	84	92
1	С	138/138~(100%)	137~(99%)	1 (1%)	84	92
1	D	137/138~(99%)	137~(100%)	0	100	100
1	Ε	137/138~(99%)	135~(98%)	2(2%)	65	79
All	All	684/690~(99%)	679~(99%)	5 (1%)	84	92

All (5) residues with a non-rotameric sidechain are listed below:

Mol	Chain	\mathbf{Res}	Type
1	А	3	LYS
1	В	136	ARG
1	С	14	ARG
1	Е	136	ARG
1	Е	171	PHE

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

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)

5 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



Mal	Mol Type Chain		Res	Link	Bond lengths			Bond angles		
	туре	Cham	nes		Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z >2
2	7SB	В	501	-	$16,\!21,\!21$	2.17	4 (25%)	$17,\!28,\!28$	1.71	4 (23%)
2	7SB	Е	501	-	16,21,21	2.39	3 (18%)	$17,\!28,\!28$	1.81	2 (11%)
2	7SB	D	501	-	16,21,21	2.32	5 (31%)	$17,\!28,\!28$	1.63	1 (5%)
2	7SB	А	501	-	16,21,21	3.18	5 (31%)	$17,\!28,\!28$	1.79	3 (17%)
2	7SB	С	501	-	16,21,21	3.15	4 (25%)	$17,\!28,\!28$	2.08	2 (11%)

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).

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	7SB	В	501	-	-	0/3/9/9	0/3/3/3
2	7SB	Е	501	-	-	0/3/9/9	0/3/3/3
2	7SB	D	501	-	-	0/3/9/9	0/3/3/3
2	7SB	А	501	-	-	0/3/9/9	0/3/3/3
2	7SB	С	501	-	-	0/3/9/9	0/3/3/3

Mol	Chain	Res	Type	Atoms	Z	$\operatorname{Observed}(\operatorname{\AA})$	Ideal(Å)
2	С	501	7SB	NAM-NAJ	-9.16	1.19	1.37
2	А	501	7SB	NAM-NAJ	-7.03	1.23	1.37
2	А	501	7SB	CAO-CL	6.14	1.87	1.74
2	Е	501	7SB	NAM-NAJ	-5.82	1.26	1.37
2	D	501	7SB	CAI-CAP	-5.69	1.39	1.51
2	С	501	7SB	CAI-CAP	-5.65	1.39	1.51
2	В	501	7SB	CAI-CAP	-5.51	1.39	1.51
2	А	501	7SB	CAR-CAQ	-5.33	1.33	1.48
2	А	501	7SB	CAI-CAP	-5.30	1.39	1.51
2	Е	501	7SB	CAI-CAP	-5.27	1.40	1.51
2	D	501	7SB	CAR-CAQ	-4.90	1.34	1.48
2	В	501	7SB	CAR-CAQ	-4.89	1.34	1.48
2	С	501	7SB	CAR-CAQ	-4.73	1.34	1.48
2	Е	501	7SB	CAR-CAQ	-4.68	1.34	1.48
2	D	501	7SB	NAM-NAJ	-3.83	1.30	1.37
2	С	501	7SB	CAQ-NAK	-3.35	1.31	1.35

All (21) bond length outliers are listed below:



Mol	Chain	Res	Type	Atoms	Z	$\operatorname{Observed}(\operatorname{\AA})$	Ideal(Å)
2	А	501	7SB	CAB-CAD	-2.47	1.32	1.39
2	В	501	7SB	CAB-CAD	-2.25	1.32	1.39
2	D	501	7SB	CAB-CAD	-2.12	1.33	1.39
2	В	501	7SB	CAO-CL	2.10	1.79	1.74
2	D	501	7SB	CAO-CL	2.05	1.79	1.74

All (12) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^{o})$	$Ideal(^{o})$
2	С	501	7SB	CAQ-NAJ-NAM	7.18	110.74	104.70
2	Е	501	7SB	CAQ-NAJ-NAM	6.28	109.99	104.70
2	А	501	7SB	CAQ-NAJ-NAM	5.38	109.23	104.70
2	D	501	7SB	CAQ-NAJ-NAM	4.75	108.70	104.70
2	В	501	7SB	CAQ-NAJ-NAM	4.06	108.12	104.70
2	С	501	7SB	CAI-NAL-CAS	-3.24	118.74	123.28
2	В	501	7SB	CAI-NAL-CAS	-3.06	119.00	123.28
2	В	501	7SB	CAR-CAQ-NAK	3.02	127.48	123.61
2	В	501	7SB	CAG-CAE-CAO	2.25	121.61	119.24
2	А	501	7SB	CAF-CAO-CAE	-2.24	118.33	121.24
2	Е	501	7SB	CAI-NAL-CAS	-2.22	120.18	123.28
2	А	501	7SB	CAF-CAO-CL	2.21	122.80	119.35

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

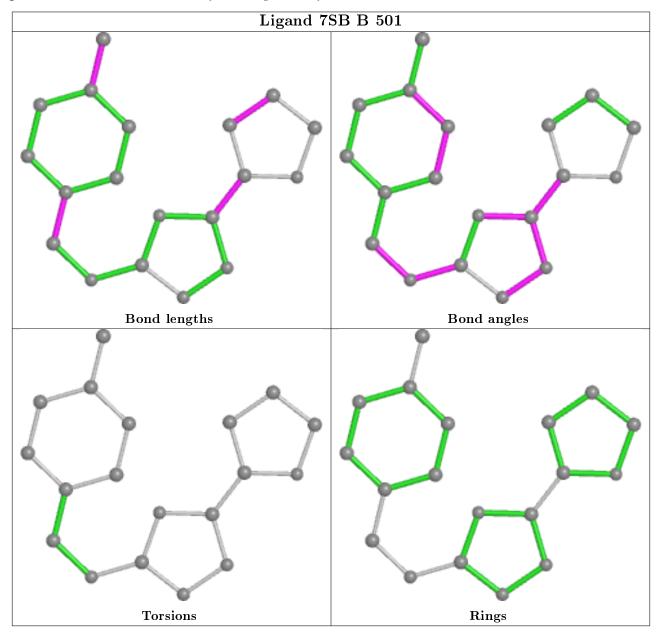
4 monomers are involved in 9 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	В	501	7SB	4	0
2	Е	501	7SB	1	0
2	D	501	7SB	3	0
2	А	501	7SB	1	0

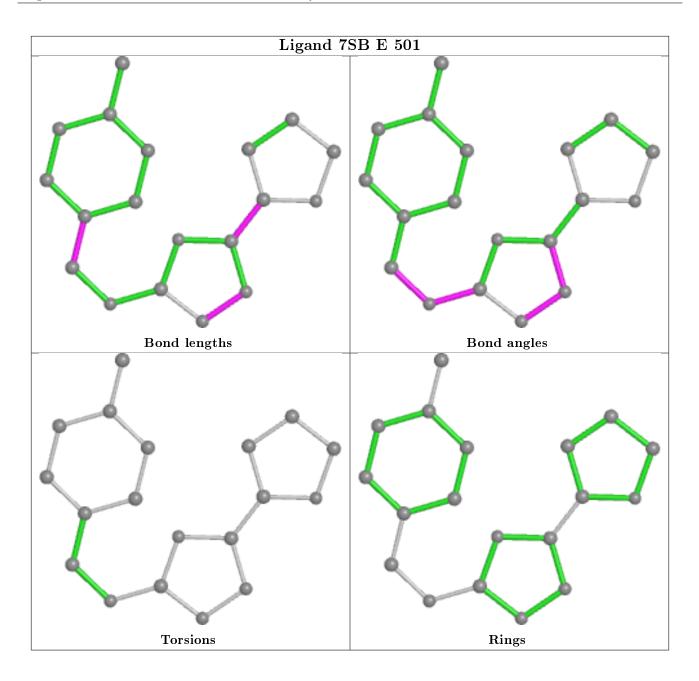
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less 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



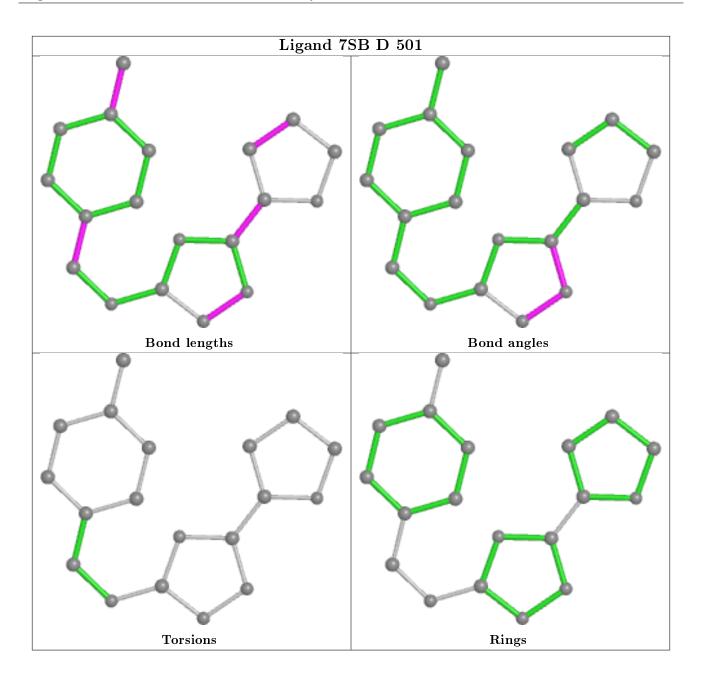
average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.



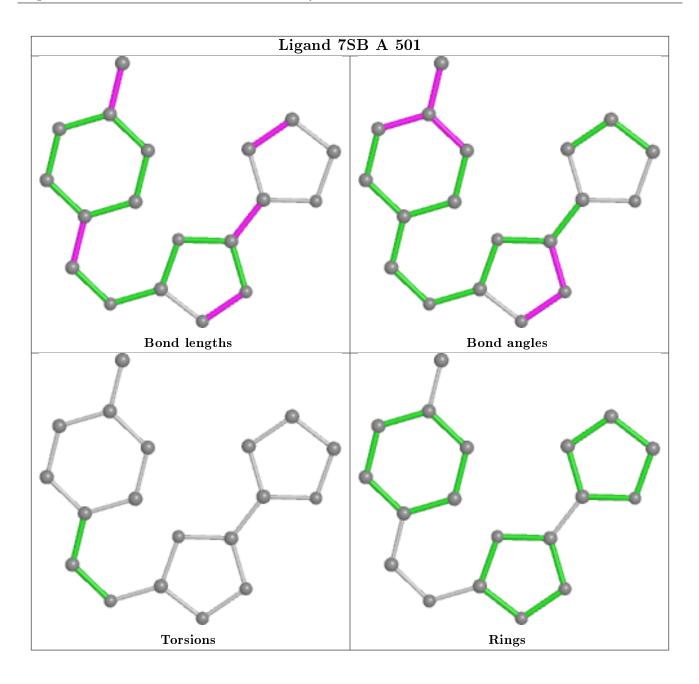




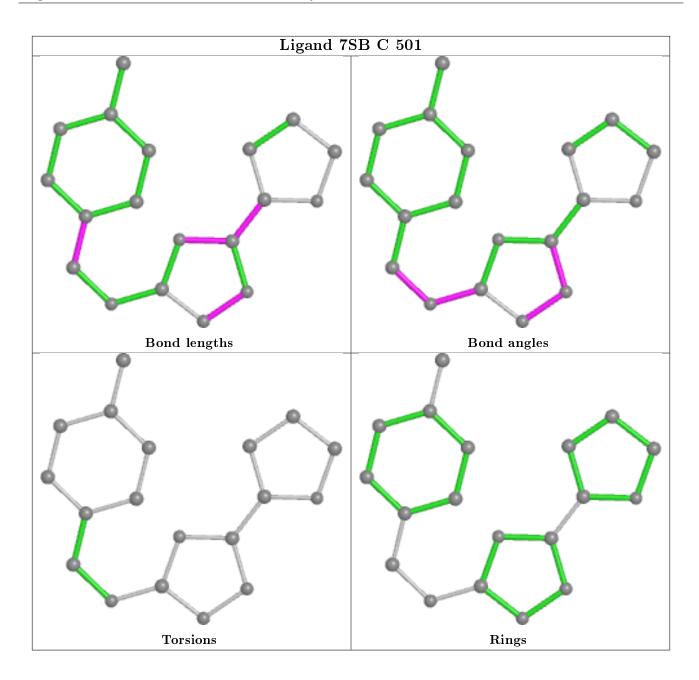












5.7 Other polymers (i)

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 $>$	$\# RSRZ {>}2$	$OWAB(A^2)$	Q<0.9
1	А	168/171~(98%)	-0.36	4 (2%) 59 56	23, 35, 77, 112	0
1	В	$170/171 \ (99\%)$	-0.46	4 (2%) 59 56	23, 37, 74, 129	0
1	С	$171/171 \ (100\%)$	-0.30	8 (4%) 31 29	31, 46, 84, 132	0
1	D	$170/171 \ (99\%)$	-0.30	5 (2%) 51 49	24, 39, 82, 135	0
1	Е	170/171~(99%)	-0.59	3 (1%) 68 65	21, 34, 65, 108	0
All	All	849/855~(99%)	-0.40	24 (2%) 53 50	21, 39, 80, 135	0

All (24) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ	
1	D	136	ARG	5.3	
1	D	138	LEU	5.3	
1	D	134	ILE	4.4	
1	Е	2	THR	4.4	
1	D	137	SER	4.2	
1	С	170	SER	4.0	
1	Е	136	ARG	4.0	
1	С	136	ARG	3.9	
1	В	136	ARG	3.7	
1	А	169	ASP	3.6	
1	С	49	TYR	3.2	
1	С	50	GLY	3.1	
1	В	2	THR	2.8	
1	А	135	ASN	2.8	
1	А	2	THR	2.8	
1	С	46	GLY	2.7	
1	С	137	SER	2.6	
1	D	2	THR	2.6	
1	Е	135	ASN	2.6	
1	В	137	SER	2.4	



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Mol	Chain	\mathbf{Res}	Type	RSRZ	
1	С	47	GLY	2.4	
1	С	23	PRO	2.4	
1	В	3	LYS	2.3	
1	А	167	SER	2.2	

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.

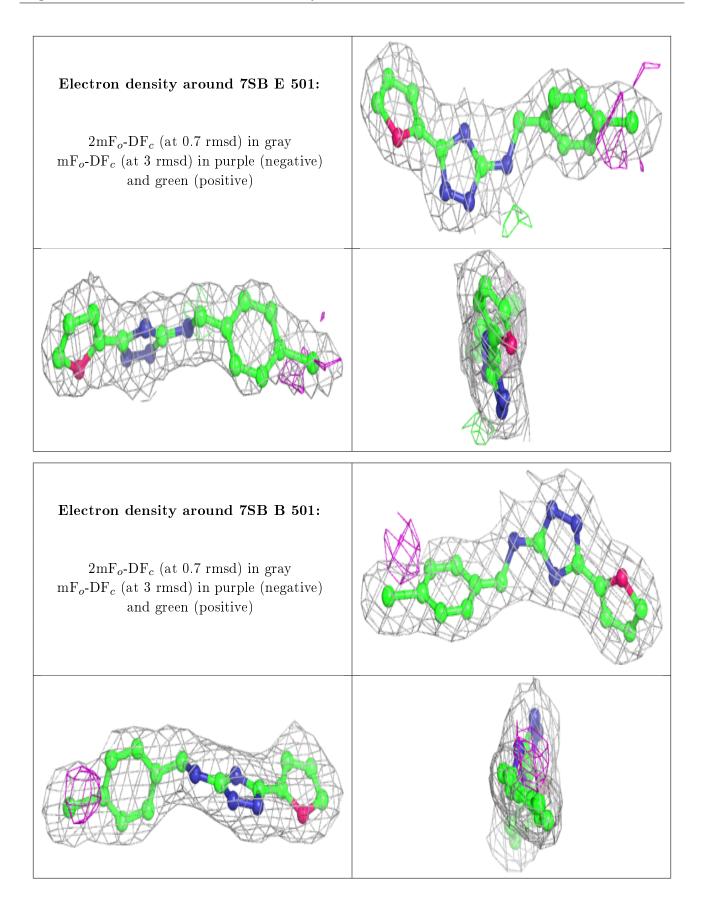
6.4 Ligands (i)

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, 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.

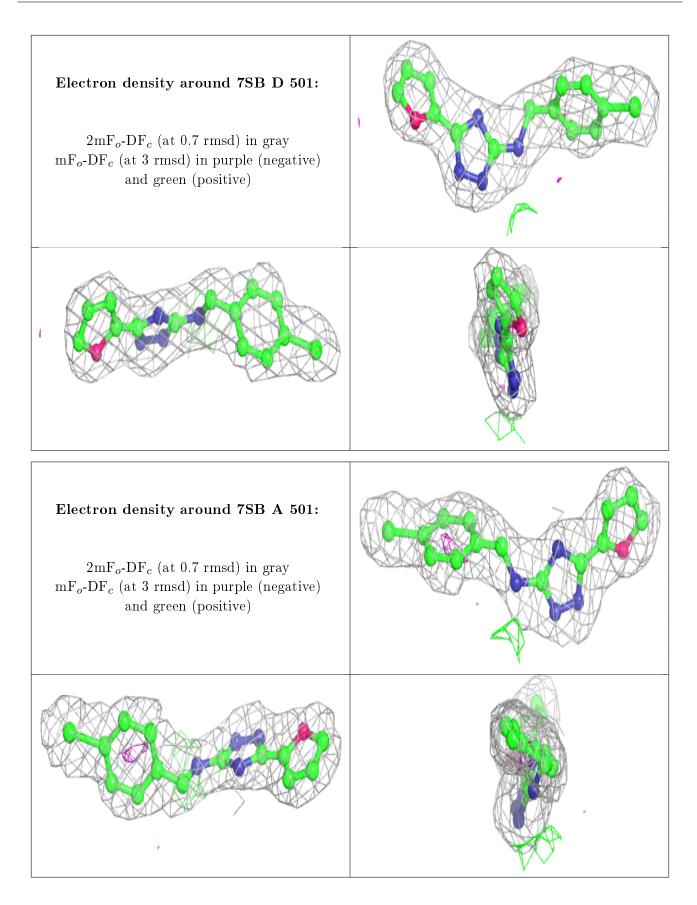
Mol	Type	Chain	\mathbf{Res}	Atoms	RSCC	RSR	$\mathbf{B} ext{-factors}(\mathbf{\AA}^2)$	Q<0.9
2	$7\mathrm{SB}$	Е	501	19/19	0.94	0.14	$27,\!38,\!53,\!56$	0
2	7SB	В	501	19/19	0.96	0.10	$20,\!29,\!40,\!48$	0
2	7SB	D	501	19/19	0.96	0.10	$27,\!33,\!43,\!51$	0
2	7SB	А	501	19/19	0.97	0.10	$25,\!32,\!37,\!44$	0
2	7SB	С	501	19/19	0.97	0.10	$32,\!39,\!50,\!55$	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.

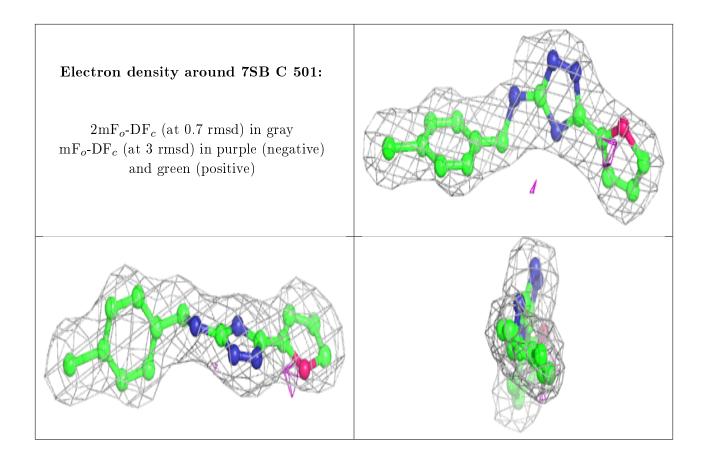












6.5 Other polymers (i)

There are no such residues in this entry.

