

Full wwPDB X-ray Structure Validation Report (i)

Jan 30, 2021 – 03:04 PM EST

PDB ID : 5Q0B

Title: Human liver fructose-1,6-bisphosphatase 1 (fructose 1,6-bisphosphate 1-

phosphatase, E.C.3.1.3.11) complexed with the allosteric inhibitor 1-(4-bromo

-3-methyl-1,2-thiazol-5-yl)-3-(3-methylphenyl)sulfonylurea

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Deposited on : 2017-04-18

Resolution : 2.30 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:

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)

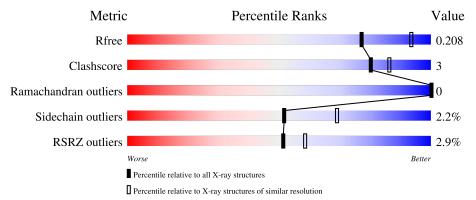
Validation Pipeline (wwPDB-VP) : 2.16

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure: X- $RAY\ DIFFRACTION$

The reported resolution of this entry is 2.30 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 $(\# \mathrm{Entries})$	$\begin{array}{c} {\rm Similar\ resolution} \\ (\#{\rm Entries,\ resolution\ range(\mathring{A})}) \end{array}$
R_{free}	130704	5042 (2.30-2.30)
Clashscore	141614	5643 (2.30-2.30)
Ramachandran outliers	138981	5575 (2.30-2.30)
Sidechain outliers	138945	5575 (2.30-2.30)
RSRZ outliers	127900	4938 (2.30-2.30)

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		
1	A	338	6% 89%	7% •	
1	В	338	87%	7% 69	%
1	С	338	84%	10% 69	%
1	D	338	87%	7% 69	%



2 Entry composition (i)

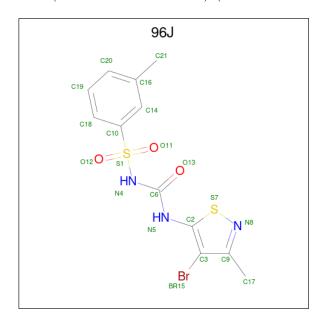
There are 3 unique types of molecules in this entry. The entry contains 10653 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 Fructose-1,6-bisphosphatase 1.

Mol	Chain	Residues		At	oms			ZeroOcc	AltConf	Trace
1	Λ	327	Total	С	N	О	S	0	1	0
1	A	321	2508	1593	423	475	17	U	1	
1	В	317	Total	С	N	О	S	0	1	0
1	Ъ	317	2436	1551	410	458	17			
1	С	317	Total	С	N	О	S	0	1	0
1		317	2436	1551	410	458	17	0		
1	D	317	Total	С	N	О	S	0	0	0
1	ש	317	2425	1545	406	457	17			

• Molecule 2 is N-[(4-bromo-3-methyl-1,2-thiazol-5-yl)carbamoyl]-3-methylbenzene-1-sulfona mide (three-letter code: 96J) (formula: $C_{12}H_{12}BrN_3O_3S_2$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf		
9	Λ	1	Total	Br	С	N	О	S	0	0
	A	1	21	1	12	3	3	2	0	
2	D	1	Total	Br	С	N	О	S	0	0
	Б	1	21	1	12	3	3	2	0	0



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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf		
2	С	1	Total	Br	С	N	О	S	0	0
2		1	21	1	12	3	3	2		
9	D	1	Total	Br	С	N	О	S	0	0
2	ש	1	21	1	12	3	3	2	U	U

$\bullet\,$ Molecule 3 is water.

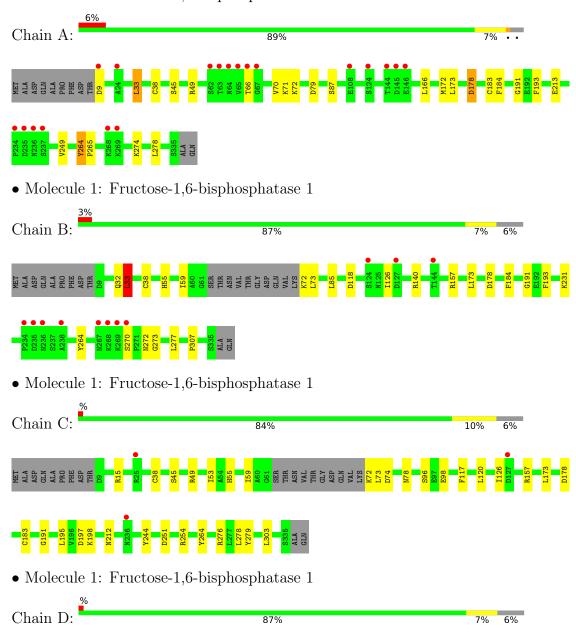
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	155	Total O 155 155	0	0
3	В	184	Total O 184 184	0	0
3	С	212	Total O 212 212	0	0
3	D	213	Total O 213 213	0	0



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: Fructose-1,6-bisphosphatase 1











4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants	67.47Å 83.09Å 276.42Å	Donositor
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	29.60 - 2.30	Depositor
rtesolution (A)	29.60 - 2.30	EDS
% Data completeness	97.8 (29.60-2.30)	Depositor
(in resolution range)	97.8 (29.60-2.30)	EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	6.02 (at 2.31Å)	Xtriage
Refinement program	PHENIX 1.11.1_2575	Depositor
D D.	0.155 , 0.208	Depositor
R, R_{free}	0.155 , 0.208	DCC
R_{free} test set	3458 reflections $(5.05%)$	wwPDB-VP
Wilson B-factor (Å ²)	23.2	Xtriage
Anisotropy	0.199	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.36, 57.0	EDS
L-test for twinning ²	$ < L > = 0.48, < L^2> = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	10653	wwPDB-VP
Average B, all atoms (Å ²)	27.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 4.05% 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: 96J

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	Chain	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	A	0.37	0/2552	0.57	1/3448~(0.0%)	
1	В	0.37	0/2479	0.58	1/3347~(0.0%)	
1	С	0.40	0/2479	0.59	0/3347	
1	D	0.41	0/2468	0.59	0/3333	
All	All	0.39	0/9978	0.58	2/13475~(0.0%)	

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\mathbf{Observed}(^o)$	$Ideal(^{o})$
1	A	33	LEU	CA-CB-CG	6.76	130.84	115.30
1	В	33	LEU	CA-CB-CG	6.44	130.10	115.30

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	2508	0	2553	15	0
1	В	2436	0	2481	15	0
1	С	2436	0	2481	17	0
1	D	2425	0	2469	11	0
2	A	21	0	0	1	0



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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	В	21	0	0	0	0
2	С	21	0	0	0	0
2	D	21	0	0	0	0
3	A	155	0	0	3	0
3	В	184	0	0	5	0
3	С	212	0	0	2	0
3	D	213	0	0	0	0
All	All	10653	0	9984	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 3.

All (54) 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:140:ARG:NH1	3:B:503:HOH:O	2.18	0.75
1:C:72:LYS:N	3:C:501:HOH:O	2.18	0.74
1:A:264:TYR:CE1	1:A:274:LYS:HD2	2.25	0.71
1:D:102:ALA:HB3	1:D:149:GLU:HG2	1.72	0.71
1:C:157[B]:ARG:NH2	3:C:502:HOH:O	2.19	0.68
1:A:265:PRO:O	3:A:501:HOH:O	2.14	0.65
1:B:118:ASP:OD1	3:B:501:HOH:O	2.13	0.65
1:C:251:ASP:OD1	1:C:254:ARG:NH2	2.30	0.63
1:A:264:TYR:HE1	1:A:274:LYS:HD2	1.65	0.61
1:B:272:ASN:HA	3:B:506:HOH:O	2.04	0.58
1:C:195:LEU:HD21	1:C:198:LYS:HG2	1.87	0.55
1:A:178:ASP:O	3:A:502:HOH:O	2.18	0.55
1:B:73:LEU:HD23	1:B:126:ILE:HD13	1.87	0.54
1:B:270:SER:HB3	1:B:273:GLY:O	2.08	0.53
1:C:78:ASN:HB2	1:C:98:GLU:HG3	1.90	0.53
1:C:157[A]:ARG:HG2	1:C:303:LEU:HB3	1.90	0.53
1:A:191:GLY:HA3	1:C:191:GLY:HA3	1.91	0.52
1:B:191:GLY:HA3	1:D:191:GLY:HA3	1.91	0.52
1:D:73:LEU:HD23	1:D:126:ILE:HD13	1.91	0.51
1:B:72:LYS:NZ	3:B:511:HOH:O	2.36	0.51
1:A:9:ASP:N	3:A:510:HOH:O	2.44	0.50
1:D:45:SER:O	1:D:49:ARG:HD3	2.12	0.50
1:C:73:LEU:HD23	1:C:126:ILE:HD13	1.94	0.50
1:D:195:LEU:HD21	1:D:198:LYS:HG2	1.94	0.49
1:B:270:SER:HB3	1:B:273:GLY:C	2.33	0.48
1:A:87:SER:OG	1:C:15:ARG:NH2	2.47	0.47



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Continued from predio		Interatomic	Clash
Atom-1	Atom-2	${\rm distance}(\mathring{\rm A})$	overlap (Å)
1:D:120:LEU:HA	1:D:120:LEU:HD12	1.77	0.47
1:B:33:LEU:HD13	1:B:85:LEU:HD22	1.96	0.47
1:B:55:HIS:HA	1:B:59:ILE:HG22	1.97	0.47
1:A:184:PHE:HB3	1:A:193:PHE:HB3	1.98	0.46
1:D:184:PHE:HB3	1:D:193:PHE:HB3	1.96	0.46
1:C:45:SER:O	1:C:49:ARG:HD3	2.16	0.46
1:C:72:LYS:HG2	1:C:74:ASP:OD1	2.14	0.46
1:D:55:HIS:HA	1:D:59:ILE:HG22	1.99	0.44
1:C:55:HIS:HA	1:C:59:ILE:HG22	2.00	0.44
1:B:157[A]:ARG:NH2	3:B:502:HOH:O	2.17	0.44
1:B:184:PHE:HB3	1:B:193:PHE:HB3	2.00	0.43
1:A:71:LYS:NZ	1:A:79:ASP:OD2	2.42	0.43
1:A:166:LEU:HD13	1:A:249:VAL:HG12	2.00	0.42
1:A:66:THR:O	1:A:70:VAL:HG23	2.19	0.42
1:C:183:CYS:HB2	1:C:197:ASP:HB2	2.01	0.42
2:A:401:96J:O13	2:A:401:96J:S7	2.77	0.42
1:B:277:LEU:HD23	1:B:307:PRO:HB3	2.00	0.42
1:A:264:TYR:CZ	1:A:274:LYS:HD2	2.55	0.42
1:A:45:SER:O	1:A:49:ARG:HD3	2.20	0.41
1:B:32:GLN:CD	1:D:18:MET:HG2	2.40	0.41
1:A:213:GLU:O	1:B:231:LYS:HE2	2.20	0.41
1:C:96:SER:HB2	1:C:117:PHE:CZ	2.55	0.41
1:D:204:LYS:HG2	1:D:322:ASP:OD2	2.21	0.41
1:D:121:ASP:N	1:D:133:GLY:O	2.51	0.41
1:A:172:MET:SD	1:A:183:CYS:HB3	2.61	0.41
1:C:120:LEU:HA	1:C:120:LEU:HD12	1.86	0.41
1:C:212:ASN:HB2	1:C:244:TYR:CE2	2.56	0.40
1:C:276:ARG:HG3	1:C:279:TYR:CE1	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	326/338~(96%)	321 (98%)	5 (2%)	0	100 100
1	В	314/338 (93%)	308 (98%)	6 (2%)	0	100 100
1	C	314/338 (93%)	309 (98%)	5 (2%)	0	100 100
1	D	313/338 (93%)	308 (98%)	5 (2%)	0	100 100
All	All	$1267/1352\ (94\%)$	1246 (98%)	21 (2%)	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	274/281 (98%)	267 (97%)	7 (3%)	46 63		
1	В	265/281 (94%)	260 (98%)	5 (2%)	57 73		
1	С	265/281 (94%)	259 (98%)	6 (2%)	50 67		
1	D	264/281 (94%)	259 (98%)	5 (2%)	57 73		
All	All	1068/1124 (95%)	1045 (98%)	23 (2%)	52 69		

All (23) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	33	LEU
1	A	38	CYS
1	A	72	LYS
1	A	173	LEU
1	A	178	ASP
1	A	264	TYR
1	A	278	LEU
1	В	33	LEU
1	В	38	CYS
1	В	173	LEU
1	В	178	ASP
1	В	264	TYR
1	С	38	CYS



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Mol	Chain	Res	Type
1	С	53	ILE
1	С	173	LEU
1	С	178	ASP
1	С	264	TYR
1	С	278	LEU
1	D	38	CYS
1	D	173	LEU
1	D	178	ASP
1	D	228	GLN
1	D	264	TYR

Sometimes 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 monosaccharides in this entry.

5.6 Ligand geometry (i)

4 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 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			
IVIOI	туре	Chain	nes	Lilik	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	96J	В	401	-	18,22,22	0.54	0	22,32,32	0.84	2 (9%)



Mol	Type	Chain	Res	Res Link Bond lengths			ths	Bond angles		
MIOI	Туре	Chain	nes	Lilik	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	96J	D	401	-	18,22,22	0.48	0	22,32,32	0.57	0
2	96J	A	401	-	18,22,22	0.43	0	22,32,32	0.78	2 (9%)
2	96J	С	401	-	18,22,22	0.43	0	22,32,32	0.67	0

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	96J	В	401	-	-	0/13/15/15	0/2/2/2
2	96J	D	401	-	-	0/13/15/15	0/2/2/2
2	96J	A	401	-	-	0/13/15/15	0/2/2/2
2	96J	С	401	-	-	0/13/15/15	0/2/2/2

There are no bond length outliers.

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
2	В	401	96J	C10-S1-N4	2.49	109.74	105.97
2	В	401	96J	BR15-C3-C9	-2.18	123.82	125.87
2	A	401	96J	C10-S1-N4	2.11	109.17	105.97
2	A	401	96J	C6-N4-S1	2.01	129.36	123.62

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

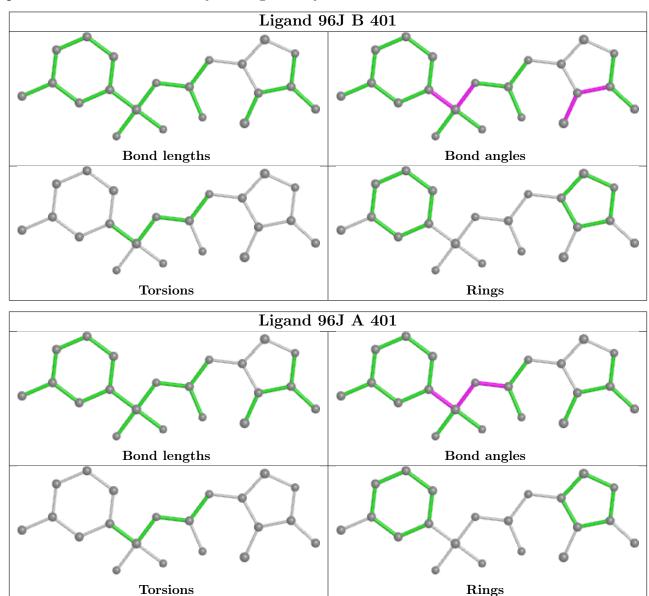
1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	401	96J	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 $>$	$\# \mathrm{RSRZ}{>}2$	$OWAB(A^2)$	Q<0.9
1	A	327/338~(96%)	-0.10	19 (5%) 23 29	13, 27, 61, 82	0
1	В	317/338 (93%)	-0.16	11 (3%) 44 51	12, 23, 55, 92	0
1	С	317/338 (93%)	-0.34	3 (0%) 84 88	11, 21, 44, 67	0
1	D	317/338 (93%)	-0.41	4 (1%) 77 81	11, 20, 46, 79	0
All	All	1278/1352 (94%)	-0.26	37 (2%) 51 58	11, 23, 53, 92	0

All (37) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	В	268	LYS	6.9
1	A	66	THR	5.2
1	В	144	THR	4.4
1	В	269	LYS	4.3
1	A	268	LYS	3.9
1	A	235	ASP	3.9
1	A	236	ASN	3.8
1	D	236	ASN	3.8
1	A	124	SER	3.5
1	A	65	VAL	3.5
1	D	127	ASP	3.4
1	A	62	SER	3.2
1	A	63	THR	3.1
1	A	269	LYS	3.1
1	В	236	ASN	2.9
1	A	64	ASN	2.8
1	D	126	ILE	2.8
1	A	234	PRO	2.8
1	С	236	ASN	2.8
1	В	124	SER	2.7
1	A	108	GLU	2.7



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Mol	Chain	ain Res Type		RSRZ	
1	С	127	ASP	2.6	
1	С	25	ARG	2.6	
1	A	144	THR	2.5	
1	A	67	GLY	2.5	
1	В	235	ASP	2.4	
1	A	146	GLU	2.4	
1	В	267	ASN	2.3	
1	В	127	ASP	2.3	
1	A	9	ASP	2.3	
1	A	24	ALA	2.3	
1	A	145	ASP	2.2	
1	D	125	ASN	2.2	
1	В	270	SER	2.1	
1	В	238	ALA	2.1	
1	A	237	SER	2.1	
1	В	234	PRO	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)

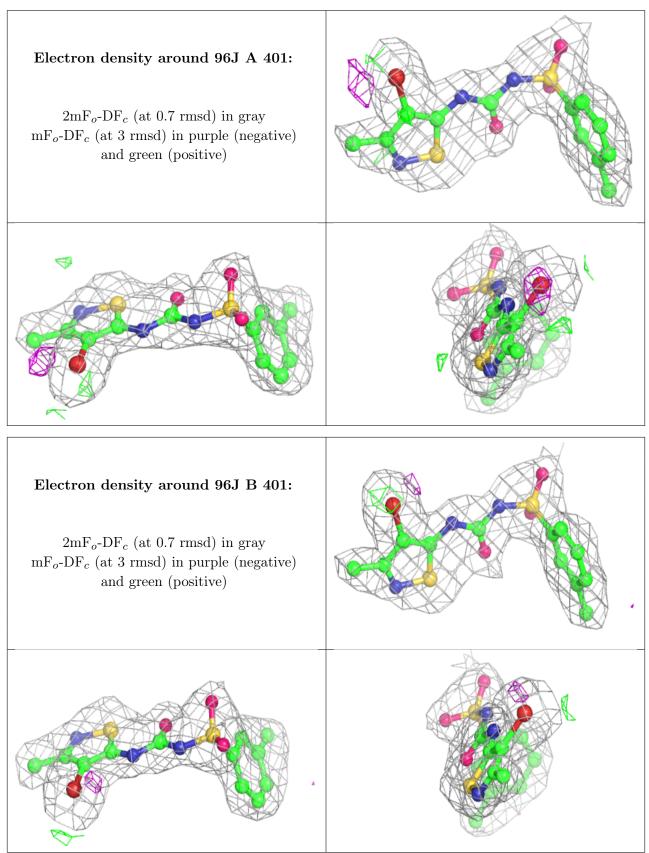
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9'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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	${f B-factors}({f A}^2)$	Q<0.9
2	96J	A	401	21/21	0.97	0.09	17,24,37,40	1
2	96J	D	401	21/21	0.98	0.09	11,25,36,39	1
2	96J	В	401	21/21	0.98	0.09	18,22,31,38	1
2	96J	С	401	21/21	0.98	0.10	12,24,38,46	1

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.

