

Full wwPDB X-ray Structure Validation Report (i)

Oct 11, 2023 – 08:19 AM EDT

PDB ID	:	5TLZ
Title	:	Fructose-1,6-bisphosphate aldolase from rabbit muscle in complex with the
		inhibitor naphthalene 2,6-bisphosphate
Authors	:	Heron, P.W.; Sygusch, J.
Deposited on		
Resolution	:	1.97 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:

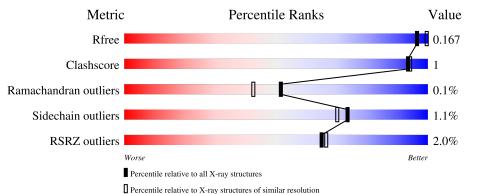
Ideal geometry (DNA, RNA) : Parkinson et al. (1996) Validation Pipeline (wwPDB-VP) : 2.35.1	Mogul : Xtriage (Phenix) : EDS : buster-report : Percentile statistics : Refmac : CCP4 : Ideal geometry (proteins) : Ideal geometry (DNA, RNA) :	 1.8.5 (274361), CSD as541be (2020) 1.13 2.35.1 1.1.7 (2018) 20191225.v01 (using entries in the PDB archive December 25th 2019) 5.8.0158 7.0.044 (Gargrove) Engh & Huber (2001) Parkinson et al. (1996)
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1 Overall quality at a glance (i)

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

The reported resolution of this entry is 1.97 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	$\begin{array}{c} \textbf{Whole archive} \\ (\#\textbf{Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries,\ resolution\ range}({ m \AA}))$
R_{free}	130704	11647 (2.00-1.96)
Clashscore	141614	1014 (1.98-1.98)
Ramachandran outliers	138981	1006 (1.98-1.98)
Sidechain outliers	138945	1006 (1.98-1.98)
RSRZ outliers	127900	11410 (2.00-1.96)

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	А	363	93%	• 5%
1	В	363	% 92%	• 5%
1	С	363	2% 93%	
1	D	363	4% 92%	• 5%



2 Entry composition (i)

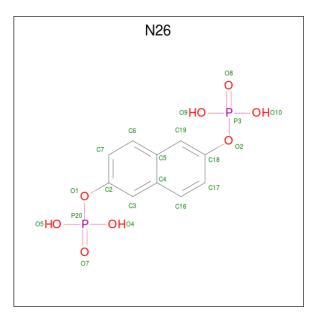
There are 4 unique types of molecules in this entry. The entry contains 23127 atoms, of which 10805 are hydrogens and 0 are deuteriums.

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.

Mol	Chain	Residues			Atom	.S			ZeroOcc	AltConf	Trace
1	А	346	Total	С	Η	Ν	0	\mathbf{S}	0	1	0
	Л	540	5322	1668	2670	470	502	12	0	1	0
1	В	346	Total	С	Η	Ν	0	S	0	2	0
	D	540	5341	1671	2683	471	504	12	0	2	0
1	С	348	Total	С	Η	Ν	0	S	0	3	0
	U	040	5377	1682	2699	474	509	13	0	0	0
1	Л	345	Total	С	Н	Ν	0	S	0	9	0
	1 D	040	5329	1671	2673	472	501	12	0	2	0

• Molecule 1 is a protein called Fructose-bisphosphate aldolase A.

• Molecule 2 is naphthalene-2,6-diyl bis[dihydrogen (phosphate)] (three-letter code: N26) (formula: $C_{10}H_{10}O_8P_2$).

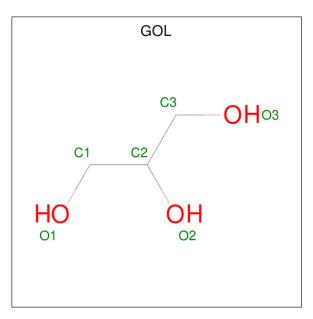


Mol	Chain	Residues		At	oms			ZeroOcc	AltConf	
0	٨	1	Total	С	Η	Ο	Р	0	1	
	2 A	1	52	20	12	16	4	0	1	
0	р	1	Total	С	Η	Ο	Р	0	1	
	2 B	1	52	20	12	16	4	0	1	



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Mol	Chain	Residues		At	\mathbf{oms}			ZeroOcc	AltConf	
0	С	1	Total	С	Η	Ο	Р	0	1	
	U	U	1	52	20	12	16	4	0	1
0	Л	1	Total	С	Η	Ο	Р	0	1	
	2 D	1	52	20	12	16	4	U		



Mol	Chain	Residues	A	Ator	ns	ZeroOcc	AltConf
3	А	1	Total 28			0	1
3	С	1	Total 28			0	1

• Molecule 4 is water.

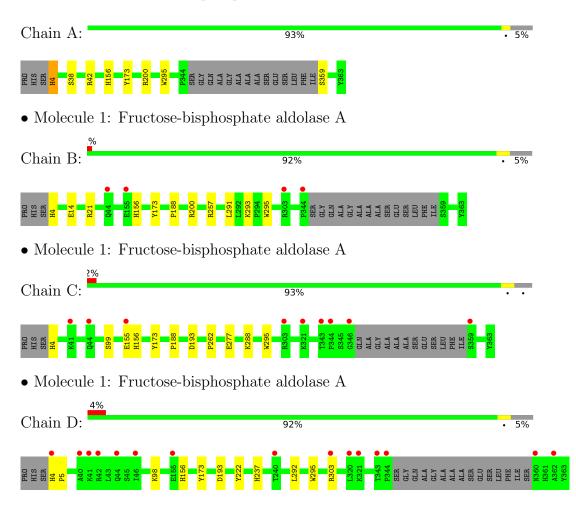
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	А	385	Total O 385 385	0	1
4	В	405	Total O 405 405	0	1
4	С	373	Total O 373 373	0	0
4	D	331	Total O 331 331	0	1



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-bisphosphate aldolase A





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants	83.25Å 103.64Å 84.52 Å	Depositor
a, b, c, α , β , γ	90.00° 98.67° 90.00°	Depositor
Resolution (Å)	48.34 - 1.97	Depositor
	48.35 - 1.90	EDS
% Data completeness	$86.6\ (48.34\text{-}1.97)$	Depositor
(in resolution range)	75.8(48.35-1.90)	EDS
R _{merge}	0.05	Depositor
R _{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$1.80 (at 1.90 \text{\AA})$	Xtriage
Refinement program	PHENIX	Depositor
R, R_{free}	0.129 , 0.166	Depositor
It, Itfree	0.131 , 0.167	DCC
R_{free} test set	2028 reflections $(2.31%)$	wwPDB-VP
Wilson B-factor ($Å^2$)	20.0	Xtriage
Anisotropy	0.423	Xtriage
Bulk solvent $k_{sol}(e/Å^3), B_{sol}(Å^2)$	0.39, 50.0	EDS
L-test for $twinning^2$	$< L > = 0.49, < L^2 > = 0.32$	Xtriage
Estimated twinning fraction	0.017 for l,-k,h	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	23127	wwPDB-VP
Average B, all atoms $(Å^2)$	31.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 6.12% 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: GOL, $\rm N26$

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
	Unam	RMSZ	# Z > 5	RMSZ	# Z > 5
1	А	0.38	0/2702	0.51	0/3659
1	В	0.38	0/2708	0.51	0/3667
1	С	0.37	0/2728	0.51	0/3693
1	D	0.36	0/2707	0.50	0/3666
All	All	0.37	0/10845	0.51	0/14685

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	2652	2670	2675	6	0
1	В	2658	2683	2679	7	0
1	С	2678	2699	2694	9	0
1	D	2656	2673	2676	10	0
2	А	40	12	0	1	0
2	В	40	12	0	0	0
2	С	40	12	0	0	0
2	D	40	12	0	1	0
3	А	12	16	16	0	0



Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	С	12	16	16	0	0
4	А	385	0	0	9	1
4	В	405	0	0	3	0
4	С	373	0	0	8	0
4	D	331	0	0	3	1
All	All	12322	10805	10756	31	1

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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 1.

All (31) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

A 4 1	A.L. 0	Interatomic	Clash
Atom-1	Atom-2	distance (\AA)	overlap (Å)
1:A:156:HIS:ND1	4:A:502:HOH:O	2.12	0.83
1:C:4:HIS:NE2	4:C:503:HOH:O	2.08	0.83
1:C:156:HIS:ND1	4:C:504:HOH:O	2.10	0.83
4:A:501:HOH:O	1:B:156:HIS:ND1	2.12	0.82
1:C:277:GLU:OE2	4:C:501:HOH:O	1.98	0.81
1:C:155:GLU:O	4:C:502:HOH:O	2.03	0.77
1:D:98:LYS:NZ	4:D:502:HOH:O	2.17	0.75
1:B:21:ARG:NH1	4:B:502:HOH:O	2.21	0.73
1:D:222:TYR:OH	4:D:501:HOH:O	2.12	0.66
1:A:4:HIS:HE1	4:A:790:HOH:O	1.79	0.66
4:C:503:HOH:O	1:D:156:HIS:ND1	2.28	0.64
4:A:641:HOH:O	1:D:4:HIS:HE1	1.81	0.62
1:C:99:SER:OG	4:C:505:HOH:O	2.16	0.61
4:A:502:HOH:O	1:B:4:HIS:NE2	2.20	0.58
1:B:14:GLU:OE2	4:B:501:HOH:O	2.17	0.58
1:A:359:SER:OG	4:A:503:HOH:O	2.17	0.58
1:C:155:GLU:HB3	4:C:506:HOH:O	2.05	0.57
1:D:4:HIS:N	1:D:5:PRO:CD	2.69	0.56
1:D:303:ARG:N	2:D:401[A]:N26:O5	2.35	0.54
1:A:4:HIS:NE2	4:A:501:HOH:O	1.91	0.54
1:C:288:LYS:NZ	4:C:508:HOH:O	2.42	0.49
1:B:200:ARG:NH1	4:B:505:HOH:O	2.26	0.47
4:A:641:HOH:O	1:D:4:HIS:CE1	2.60	0.47
1:A:200:ARG:NE	4:A:504:HOH:O	2.26	0.45
1:B:291:LEU:O	1:B:293:LYS:HD3	2.17	0.44
1:A:38:SER:OG	2:A:401[B]:N26:O7	2.20	0.43
1:D:4:HIS:N	1:D:5:PRO:HD2	2.33	0.43
1:D:4:HIS:O	1:D:4:HIS:ND1	2.52	0.42



Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)	
1:D:237[A]:HIS:HD2	4:D:717:HOH:O	2.03	0.41	
1:B:257:ARG:HA	1:C:262:PRO:HG2	2.02	0.40	
1:C:193[A]:ASP:N	1:C:193[A]:ASP:OD1	2.54	0.40	

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All (1) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:845:HOH:O	4:D:799:HOH:O[1_556]	2.04	0.16

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	А	343/363~(94%)	334~(97%)	9~(3%)	0	100 100
1	В	344/363~(95%)	338~(98%)	5(2%)	1 (0%)	41 29
1	С	347/363~(96%)	339~(98%)	7~(2%)	1 (0%)	41 29
1	D	343/363~(94%)	336~(98%)	7 (2%)	0	100 100
All	All	1377/1452~(95%)	1347~(98%)	28~(2%)	2(0%)	51 42

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	С	188	PRO
1	В	188	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.

Mol	Chain	Analysed	Rotameric Outliers		Percentiles		
1	А	281/291~(97%)	277~(99%)	4 (1%)	67 62		
1	В	282/291~(97%)	280~(99%)	2(1%)	84 83		
1	С	284/291~(98%)	282~(99%)	2 (1%)	84 83		
1	D	281/291~(97%)	277~(99%)	4 (1%)	67 62		
All	All	1128/1164~(97%)	1116 (99%)	12 (1%)	73 70		

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

All (12) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	А	4	HIS
1	А	42	ARG
1	А	173	TYR
1	А	295	TRP
1	В	173	TYR
1	В	295	TRP
1	С	173	TYR
1	С	295	TRP
1	D	173	TYR
1	D	193	ASP
1	D	292	LEU
1	D	295	TRP

Sometimes side chains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such side chains are listed below:

Mol	Chain	Res	Type
1	С	168	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)

12 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	Turne	Chain	Res	Link	Bo	ond leng	ths	В	ond ang	les
10101	Type	Chain	nes	LIIIK	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	N26	В	401[A]	-	21,21,21	1.12	1 (4%)	32,32,32	0.83	2 (6%)
2	N26	D	401[A]	-	21,21,21	1.09	1 (4%)	32,32,32	0.73	0
2	N26	А	401[A]	-	21,21,21	1.15	1 (4%)	32,32,32	0.81	0
2	N26	С	401[A]	-	21,21,21	1.09	1 (4%)	32,32,32	0.72	0
2	N26	D	401[B]	-	21,21,21	1.05	0	32,32,32	0.82	1 (3%)
2	N26	А	401[B]	-	21,21,21	1.05	0	32,32,32	0.77	0
2	N26	С	401[B]	-	21,21,21	1.03	0	32,32,32	0.72	0
2	N26	В	401[B]	-	21,21,21	1.16	1 (4%)	32,32,32	0.82	1 (3%)
3	GOL	С	402[A]	-	$5,\!5,\!5$	0.86	0	$5,\!5,\!5$	1.11	0
3	GOL	А	402[A]	-	$5,\!5,\!5$	0.26	0	$5,\!5,\!5$	0.24	0
3	GOL	А	402[B]	-	$5,\!5,\!5$	0.25	0	$5,\!5,\!5$	0.25	0
3	GOL	С	402[B]	-	$5,\!5,\!5$	0.66	0	$5,\!5,\!5$	1.11	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	N26	В	401[A]	-	-	0/10/10/10	0/2/2/2
2	N26	D	401[A]	-	-	2/10/10/10	0/2/2/2
2	N26	А	401[A]	-	-	0/10/10/10	0/2/2/2
2	N26	С	401[A]	-	-	0/10/10/10	0/2/2/2
2	N26	D	401[B]	-	-	0/10/10/10	0/2/2/2
2	N26	А	401[B]	-	_	1/10/10/10	0/2/2/2



Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	N26	С	401[B]	-	-	1/10/10/10	0/2/2/2
2	N26	В	401[B]	-	-	0/10/10/10	0/2/2/2
3	GOL	С	402[A]	-	-	1/4/4/4	-
3	GOL	А	402[A]	-	-	0/4/4/4	-
3	GOL	А	402[B]	-	-	0/4/4/4	-
3	GOL	С	402[B]	-	-	0/4/4/4	-

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All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Ζ	$\operatorname{Observed}(\operatorname{\AA})$	Ideal(Å)
2	А	401[A]	N26	P3-O2	2.87	1.63	1.59
2	В	401[B]	N26	P3-O2	2.51	1.63	1.59
2	С	401[A]	N26	P3-O2	2.19	1.62	1.59
2	В	401[A]	N26	P3-O2	2.17	1.62	1.59
2	D	401[A]	N26	P20-O1	2.03	1.62	1.59

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
2	В	401[A]	N26	P3-O2-C18	-2.46	115.85	123.75
2	D	401[B]	N26	O5-P20-O1	2.30	112.45	105.24
2	В	401[B]	N26	O9-P3-O2	2.12	111.87	105.24
2	В	401[A]	N26	O10-P3-O2	2.09	111.78	105.24

There are no chirality outliers.

All (5) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	D	401[A]	N26	C18-O2-P3-O8
2	D	401[A]	N26	C2-O1-P20-O4
2	А	401[B]	N26	C18-O2-P3-O8
2	С	401[B]	N26	C2-O1-P20-O4
3	С	402[A]	GOL	O1-C1-C2-C3

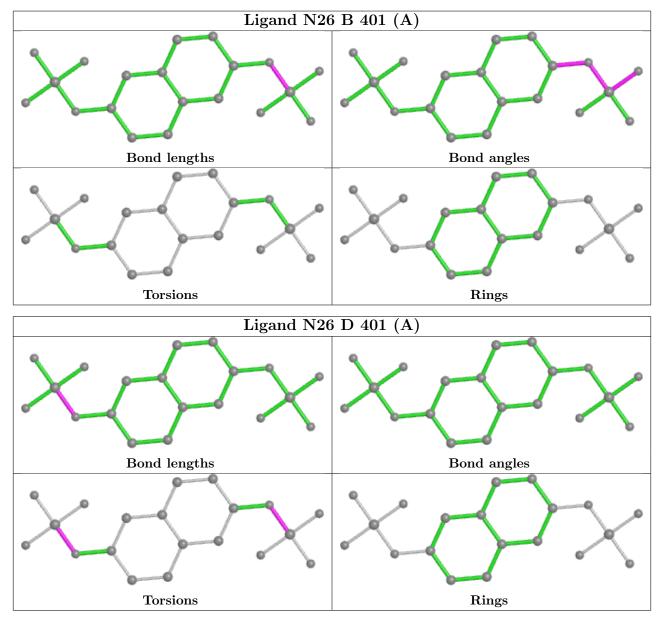
There are no ring outliers.

2 monomers are involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	D	401[A]	N26	1	0
2	А	401[B]	N26	1	0

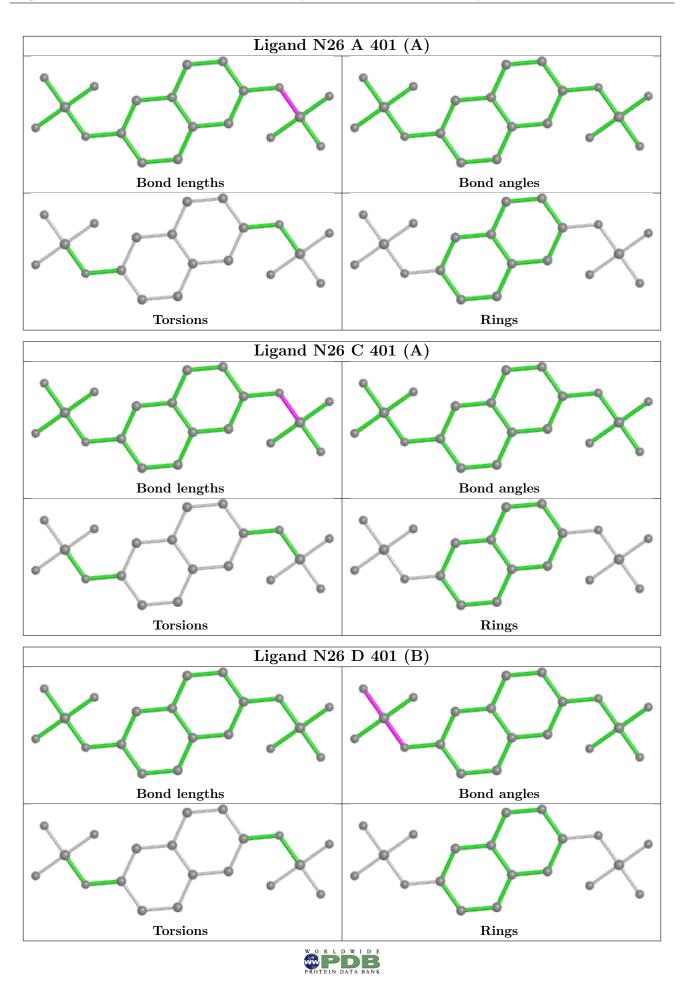


The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. 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 sufficient the outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

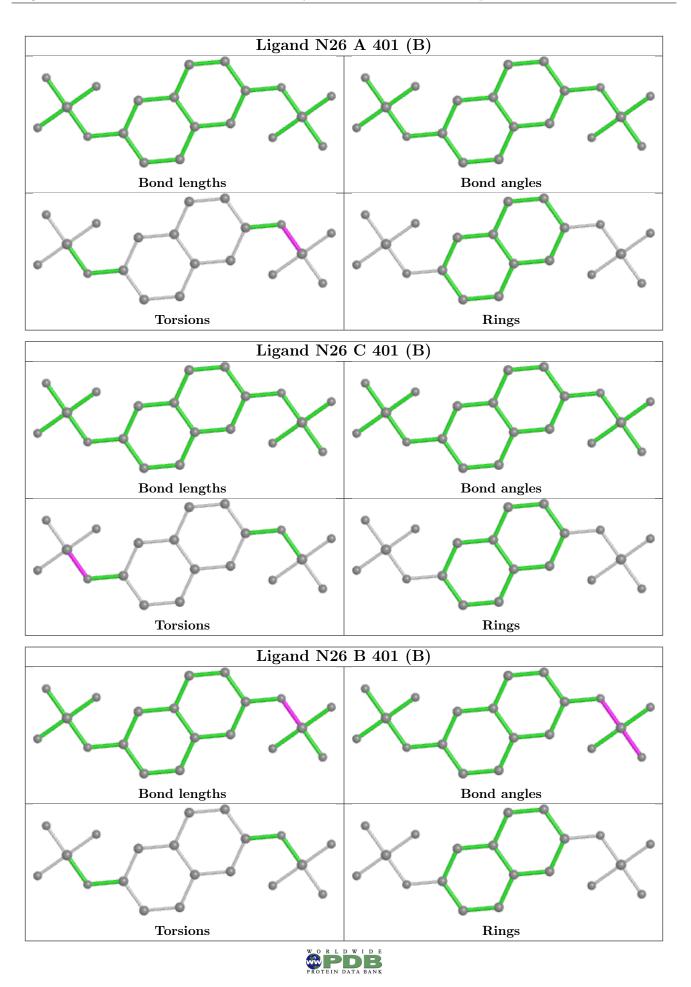












5.7 Other polymers (i)

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	$\langle RSRZ \rangle$	#RSRZ>2	$OWAB(Å^2)$	Q<0.9
1	А	346/363~(95%)	-0.45	0 100 100	12, 23, 47, 78	1 (0%)
1	В	346/363~(95%)	-0.39	4 (1%) 79 80	12, 22, 48, 84	0
1	С	348/363~(95%)	-0.20	9 (2%) 56 58	13, 23, 51, 78	2 (0%)
1	D	345/363~(95%)	-0.11	15 (4%) 35 37	13, 27, 62, 79	0
All	All	1385/1452~(95%)	-0.29	28 (2%) 65 66	12, 24, 54, 84	3 (0%)

All (28) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	D	362	ALA	3.5
1	D	44	GLN	3.5
1	С	359	SER	3.0
1	D	321	LYS	3.0
1	В	155	GLU	2.9
1	D	344	PRO	2.8
1	С	44	GLN	2.8
1	D	46	ILE	2.8
1	D	41	LYS	2.7
1	С	344	PRO	2.7
1	С	303	ARG	2.6
1	D	320	LEU	2.5
1	D	155	GLU	2.5
1	С	343	THR	2.5
1	С	346	GLY	2.4
1	С	321	LYS	2.3
1	D	343	THR	2.3
1	D	303	ARG	2.3
1	D	40	ALA	2.3
1	В	44	GLN	2.3
1	В	303	ARG	2.3



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Mol	Chain	Res	Type	RSRZ
1	С	155	GLU	2.2
1	D	240	THR	2.2
1	D	4	HIS	2.2
1	D	360	ASN	2.1
1	D	42	ARG	2.1
1	С	41	LYS	2.1
1	В	344	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.

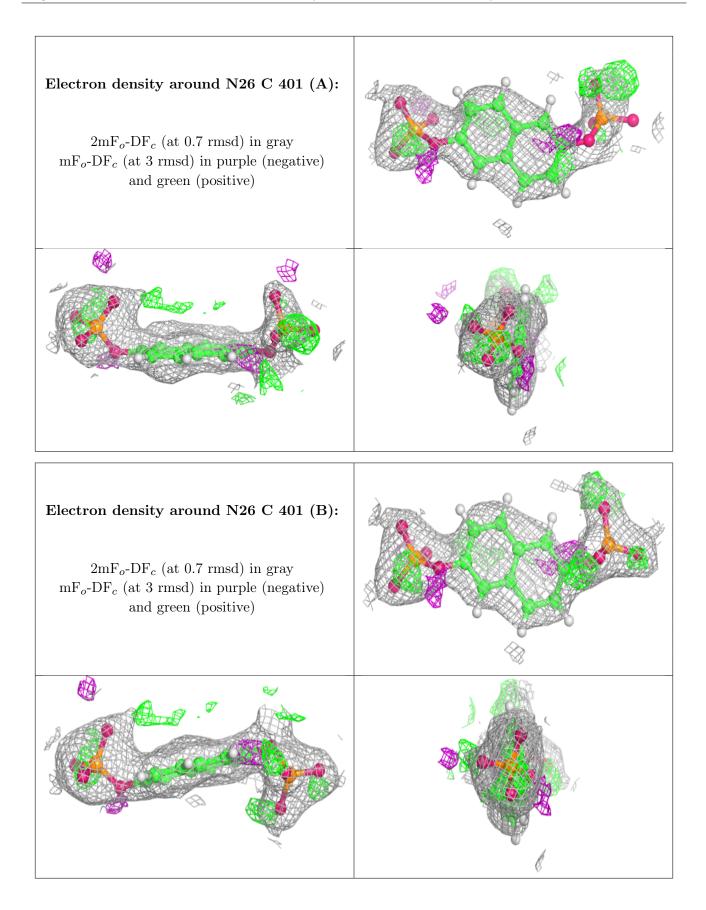
6.4 Ligands (i)

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.

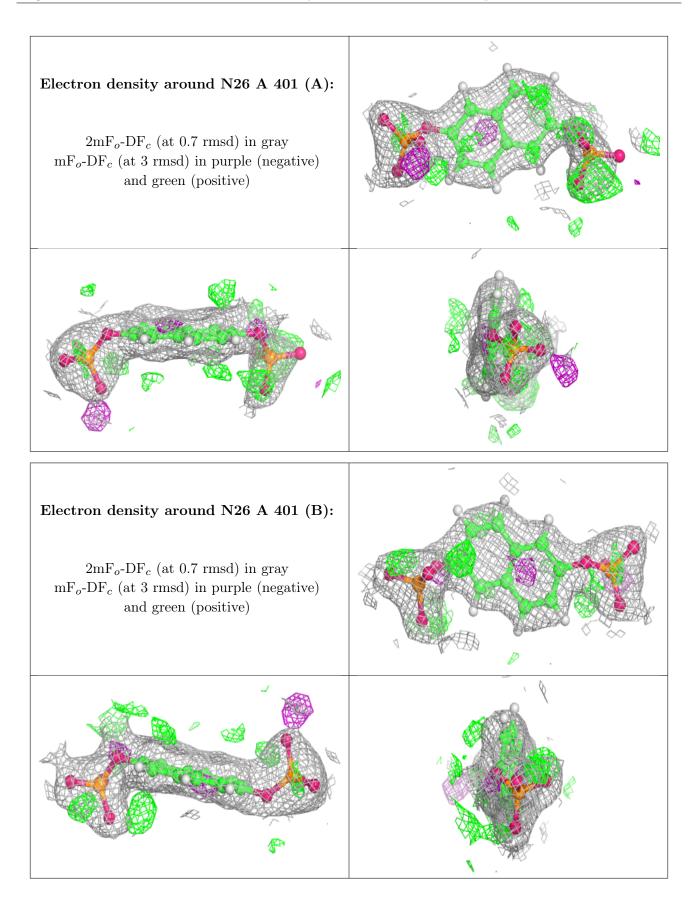
Mol	Type	Chain	Res	Atoms	RSCC	\mathbf{RSR}	$\mathbf{B} ext{-factors}(\mathrm{\AA}^2)$	Q < 0.9
2	N26	С	401[A]	20/20	0.88	0.15	$29,\!40,\!50,\!51$	26
2	N26	С	401[B]	20/20	0.88	0.15	$21,\!40,\!50,\!51$	26
2	N26	А	401[A]	20/20	0.92	0.13	24,29,41,41	26
2	N26	А	401[B]	20/20	0.92	0.13	18,29,41,41	26
3	GOL	А	402[A]	6/6	0.92	0.15	$14,\!17,\!21,\!21$	14
3	GOL	А	402[B]	6/6	0.92	0.15	16,20,21,21	14
2	N26	D	401[A]	20/20	0.93	0.12	$34,\!43,\!51,\!52$	26
2	N26	D	401[B]	20/20	0.93	0.12	$32,\!43,\!51,\!52$	26
2	N26	В	401[A]	20/20	0.93	0.13	$23,\!33,\!39,\!39$	26
2	N26	В	401[B]	20/20	0.93	0.13	24,33,39,39	26
3	GOL	С	402[A]	6/6	0.95	0.15	17,21,23,23	14
3	GOL	С	402[B]	6/6	0.95	0.15	$13,\!18,\!23,\!23$	14

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.

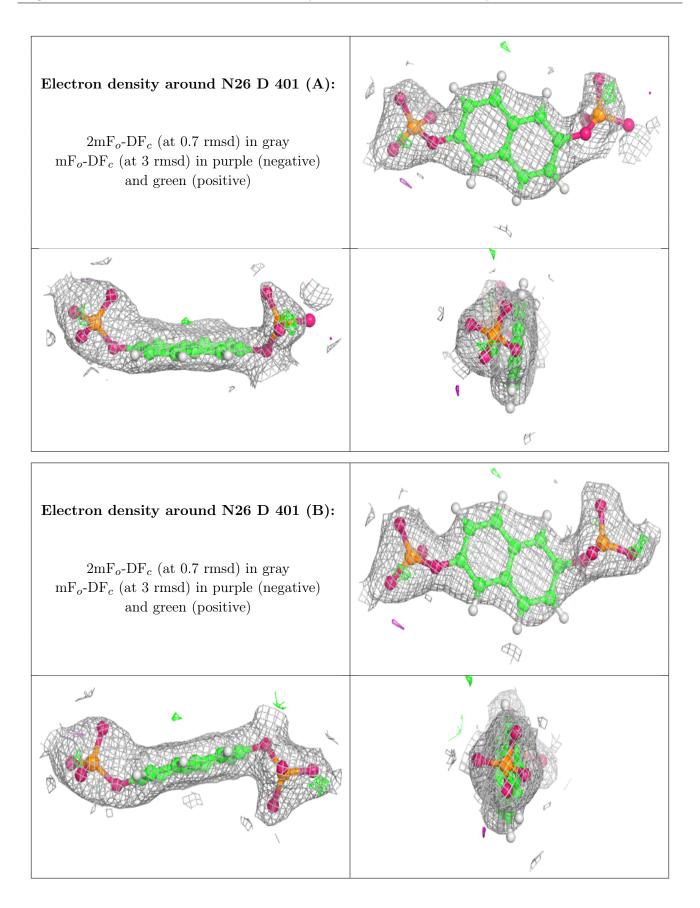




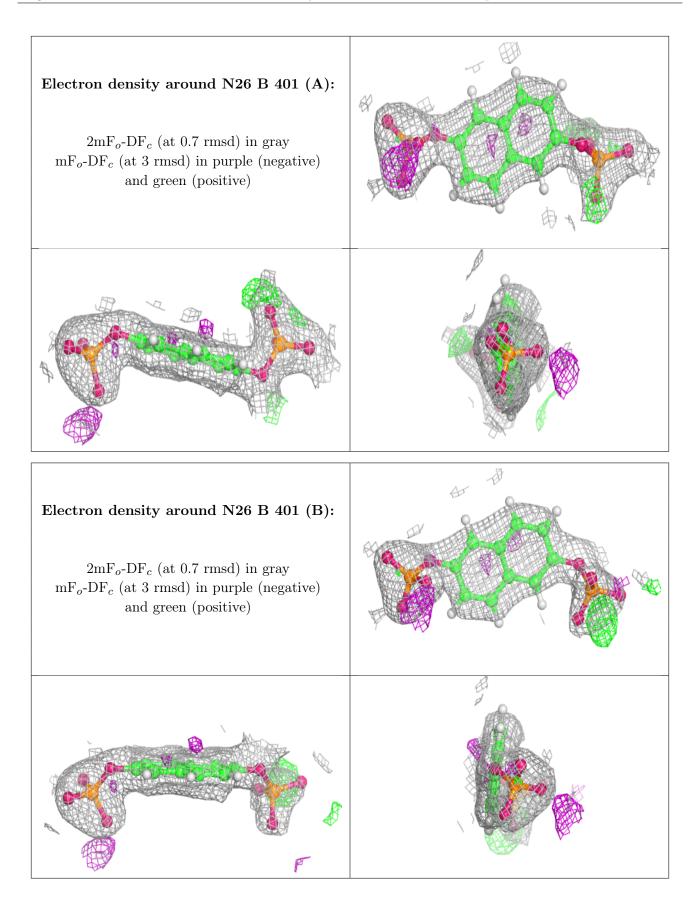














6.5 Other polymers (i)

There are no such residues in this entry.

