

Full wwPDB X-ray Structure Validation Report (i)

Aug 28, 2023 – 08:54 PM EDT

PDB ID : 3MYZ

Title : Protein induced photophysical changes to the amyloid indicator dye, thioflavin

Τ

Authors: Wolfe, L.S.; Calabrese, M.F.; Nath, A.; Blaho, D.V.; Miranker, A.D.; Xiong,

Υ.

Deposited on : 2010-05-11

Resolution : 1.60 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 (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 : 2.35

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)

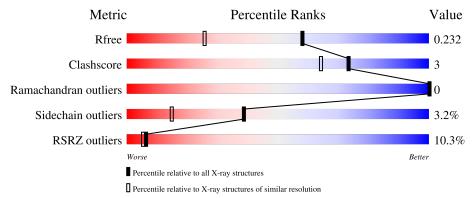
Validation Pipeline (wwPDB-VP) : 2.35

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 1.60 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 $(\# \mathrm{Entries})$	$\begin{array}{c} {\rm Similar\ resolution} \\ (\#{\rm Entries},{\rm resolution\ range}(\mathring{\rm A})) \end{array}$
R_{free}	130704	3398 (1.60-1.60)
Clashscore	141614	3665 (1.60-1.60)
Ramachandran outliers	138981	3564 (1.60-1.60)
Sidechain outliers	138945	3563 (1.60-1.60)
RSRZ outliers	127900	3321 (1.60-1.60)

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			
1	A	100	88%	9% •		
1	В	100	92%	6% •		

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:



	Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
Γ	4	TLA	A	501	_	X	_	_



2 Entry composition (i)

There are 6 unique types of molecules in this entry. The entry contains 1903 atoms, of which 24 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 Beta-2-microglobulin.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf	Trace
1	A	97	Total C H N O S 839 521 24 138 153 3	0	1	0
1	В	98	Total C N O S 821 527 137 154 3	0	0	0

There are 4 discrepancies between the modelled and reference sequences:

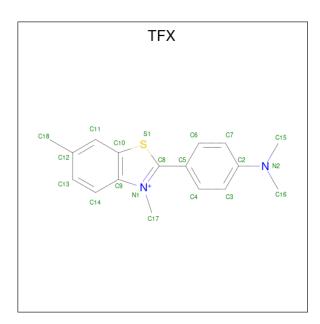
Chain	Residue	Modelled	Actual	Comment	Reference
A	0	MET	-	initiating methionine	UNP P61769
A	13	PHE	HIS	engineered mutation	UNP P61769
В	0	MET	-	initiating methionine	UNP P61769
В	13	PHE	HIS	engineered mutation	UNP P61769

• Molecule 2 is MERCURY (II) ION (three-letter code: HG) (formula: Hg).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	1	Total Hg 1 1	0	0

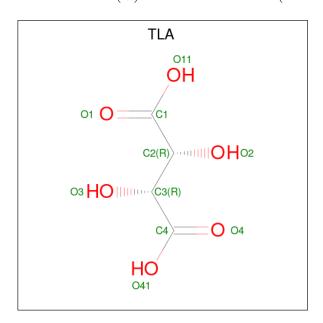
• Molecule 3 is 2-[4-(dimethylamino)phenyl]-3,6-dimethyl-1,3-benzothiazol-3-ium (three-letter code: TFX) (formula: C₁₇H₁₉N₂S).





Mol	Chain	Residues	Atoms				ZeroOcc	AltConf				
3	Δ	1	Total	С	N	S	0	0				
	11	1	20	17	2	1	O					
3	٨	Λ	Λ	Λ	Λ	Λ 1	Total	С	N	\mathbf{S}	0	0
3	Λ	1	20	17	2	1	U					
3	B	1	Total	С	N	S	0	0				
3	В	D 1	20	17	2	1	U					

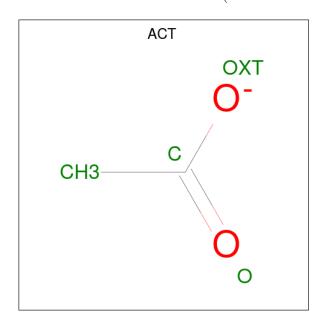
 $\bullet \ \ Molecule \ 4 \ is \ L(+)-TARTARIC \ ACID \ (three-letter \ code: \ TLA) \ (formula: \ C_4H_6O_6).$



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	A	1	Total 10	C 4	O 6	0	0



 \bullet Molecule 5 is ACETATE ION (three-letter code: ACT) (formula: $\mathrm{C_2H_3O_2}).$



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	1	Total C O 4 2 2	0	0
5	A	1	Total C O 4 2 2	0	0
5	В	1	Total C O 4 2 2	0	0

• Molecule 6 is water.

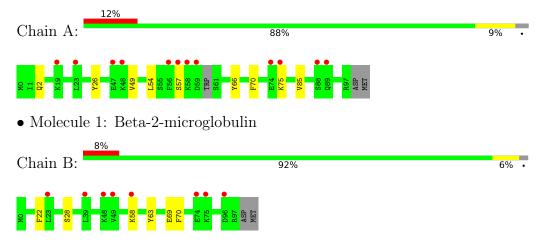
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	A	72	Total O 72 72	0	0
6	В	88	Total O 88 88	0	0



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: Beta-2-microglobulin





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants	48.35Å 28.47Å 74.98Å	Donogiton
a, b, c, α , β , γ	90.00° 91.42° 90.00°	Depositor
Resolution (Å)	29.27 - 1.60	Depositor
rtesolution (A)	18.78 - 1.60	EDS
% Data completeness	99.8 (29.27-1.60)	Depositor
(in resolution range)	99.8 (18.78-1.60)	EDS
R_{merge}	0.08	Depositor
R_{sym}	0.08	Depositor
$< I/\sigma(I) > 1$	2.18 (at 1.60Å)	Xtriage
Refinement program	REFMAC 5.5.0088	Depositor
R, R_{free}	0.189 , 0.223	Depositor
It, Itfree	0.195 , 0.232	DCC
R_{free} test set	1396 reflections (5.09%)	wwPDB-VP
Wilson B-factor (Å ²)	27.3	Xtriage
Anisotropy	0.065	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	$0.40 \; , 57.4$	EDS
L-test for twinning ²	$< L >=0.50, < L^2>=0.33$	Xtriage
Estimated twinning fraction	0.029 for h,-k,-l	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	1903	wwPDB-VP
Average B, all atoms (Å ²)	36.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 17.98% 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: HG, TLA, ACT, TFX

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		
MIOI	Chain	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	A	0.55	0/838	0.70	0/1130	
1	В	0.60	0/844	0.70	0/1142	
All	All	0.58	0/1682	0.70	0/2272	

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	A	815	24	794	7	0
1	В	821	0	792	2	0
2	A	1	0	0	0	0
3	A	40	0	38	1	0
3	В	20	0	19	0	0
4	A	10	0	4	1	0
5	A	8	0	6	0	0
5	В	4	0	3	1	0
6	A	72	0	0	1	0
6	В	88	0	0	1	0
All	All	1879	24	1656	11	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 (11) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	$\begin{array}{c} {\rm Interatomic} \\ {\rm distance} ({\rm \AA}) \end{array}$	$\begin{array}{c} \text{Clash} \\ \text{overlap } (\text{\AA}) \end{array}$
1:A:2:GLN:HE22	1:A:85:VAL:CG1	2.01	0.74
1:A:49:VAL:HG11	1:A:66:TYR:CE2	2.28	0.68
5:B:1428:ACT:OXT	6:B:168:HOH:O	2.12	0.66
1:A:2:GLN:HE22	1:A:85:VAL:HG13	1.63	0.63
1:A:49:VAL:HG11	1:A:66:TYR:CZ	2.39	0.57
1:A:2:GLN:HE22	1:A:85:VAL:HG11	1.69	0.57
1:A:75:LYS:HB2	3:A:102:TFX:H15B	1.89	0.55
1:A:2:GLN:NE2	1:A:85:VAL:HG13	2.23	0.53
1:B:22:PHE:CE2	1:B:69:GLU:HG2	2.53	0.44
1:B:28:SER:HB2	1:B:63:TYR:CE2	2.54	0.42
4:A:501:TLA:C3	6:A:169:HOH:O	2.67	0.41

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	94/100 (94%)	93 (99%)	1 (1%)	0	100	100
1	В	96/100 (96%)	95 (99%)	1 (1%)	0	100	100
All	All	190/200~(95%)	188 (99%)	2 (1%)	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	93/95 (98%)	89 (96%)	4 (4%)	29 9	
1	В	93/95~(98%)	91 (98%)	2 (2%)	52 27	
All	All	186/190 (98%)	180 (97%)	6 (3%)	39 15	

All (6) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	26	TYR
1	A	54	LEU
1	A	57	SER
1	A	70	PHE
1	В	58	LYS
1	В	70	PHE

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	2	GLN
1	A	31	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 8 ligands modelled in this entry, 1 is monoatomic - leaving 7 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).

Mol	Mol Type		Res	Link	В	ond leng	gths	В	ond ang	gles
MIOI	туре	Chain	nes	Lilik	Counts	RMSZ	# Z > 2	Counts	RMSZ	$\mid \# Z > 2$
5	ACT	A	103	-	3,3,3	0.78	0	3,3,3	1.15	0
5	ACT	В	1428	-	3,3,3	0.77	0	3,3,3	0.97	0
5	ACT	A	1428	-	3,3,3	0.84	0	3,3,3	1.56	1 (33%)
4	TLA	A	501	-	9,9,9	1.83	2 (22%)	12,12,12	2.52	6 (50%)
3	TFX	A	101	-	19,22,22	4.23	12 (63%)	21,32,32	1.68	3 (14%)
3	TFX	В	101	-	19,22,22	4.45	13 (68%)	21,32,32	2.21	5 (23%)
3	TFX	A	102	-	19,22,22	5.18	12 (63%)	21,32,32	1.69	5 (23%)

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
3	TFX	A	102	-	-	0/4/8/8	0/3/3/3
3	TFX	A	101	_	-	0/4/8/8	0/3/3/3
4	TLA	A	501	-	-	10/12/12/12	-
3	TFX	В	101	_	-	0/4/8/8	0/3/3/3

All (39) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\operatorname{Observed}(\operatorname{\AA})$	Ideal(A)
3	A	102	TFX	C10-S1	-10.53	1.65	1.74
3	В	101	TFX	C7-C2	10.23	1.59	1.39
3	A	102	TFX	C7-C2	10.07	1.59	1.39
3	A	101	TFX	C7-C2	9.29	1.57	1.39
3	A	102	TFX	C8-N1	8.31	1.52	1.38
3	В	101	TFX	C8-N1	7.75	1.51	1.38
3	В	101	TFX	C11-C12	7.60	1.52	1.37
3	A	102	TFX	C11-C12	6.99	1.50	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(A)	$Ideal(\AA)$
3	A	101	TFX	C10-S1	-6.64	1.69	1.74
3	A	101	TFX	C11-C12	6.51	1.50	1.37
3	A	102	TFX	C14-C13	6.42	1.50	1.36
3	A	101	TFX	C14-C13	6.09	1.49	1.36
3	A	101	TFX	C8-N1	5.83	1.47	1.38
3	В	101	TFX	C10-S1	-5.80	1.69	1.74
3	В	101	TFX	C14-C13	5.79	1.48	1.36
3	A	102	TFX	C4-C5	5.52	1.55	1.41
3	A	102	TFX	C4-C3	5.23	1.47	1.36
3	A	102	TFX	C17-N1	-5.16	1.42	1.48
3	A	102	TFX	C2-N2	4.52	1.48	1.37
3	A	101	TFX	C2-N2	4.42	1.47	1.37
3	В	101	TFX	C17-N1	-4.26	1.43	1.48
3	В	101	TFX	C4-C5	4.17	1.52	1.41
3	A	101	TFX	C4-C5	3.79	1.51	1.41
4	A	501	TLA	C3-C4	-3.74	1.47	1.52
3	A	101	TFX	C4-C3	3.73	1.44	1.36
3	A	101	TFX	C17-N1	-3.68	1.44	1.48
3	A	101	TFX	C6-C5	3.63	1.50	1.41
3	В	101	TFX	C2-N2	3.44	1.45	1.37
3	В	101	TFX	C4-C3	3.25	1.43	1.36
3	A	102	TFX	C3-C2	3.23	1.45	1.39
3	A	102	TFX	C6-C5	3.05	1.49	1.41
3	A	101	TFX	C3-C2	2.64	1.44	1.39
3	В	101	TFX	C3-C2	2.55	1.44	1.39
3	В	101	TFX	C6-C5	2.49	1.48	1.41
3	В	101	TFX	C8-S1	2.42	1.78	1.74
3	A	102	TFX	C13-C12	2.36	1.45	1.38
3	В	101	TFX	C13-C12	2.31	1.45	1.38
3	A	101	TFX	C13-C12	2.12	1.44	1.38
4	A	501	TLA	O3-C3	-2.11	1.37	1.42

All (20) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
3	В	101	TFX	C14-C9-N1	-5.51	125.62	132.29
4	A	501	TLA	C3-C2-C1	5.08	121.20	109.87
3	В	101	TFX	C4-C5-C6	4.91	123.01	118.65
3	A	101	TFX	C14-C9-N1	-4.81	126.48	132.29
4	A	501	TLA	C2-C3-C4	4.76	120.49	109.87
3	В	101	TFX	C11-C10-S1	3.98	133.07	125.10
3	A	101	TFX	C11-C10-S1	3.83	132.77	125.10

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Mol	Chain	Res	Type	Atoms	Z	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
3	A	102	TFX	C11-C10-S1	3.78	132.66	125.10
3	В	101	TFX	C10-C9-N1	3.13	111.16	105.99
3	A	102	TFX	C7-C2-N2	-3.01	117.56	121.63
3	A	102	TFX	C9-C10-S1	-2.87	108.05	111.85
3	A	102	TFX	C4-C5-C6	2.72	121.06	118.65
3	A	101	TFX	C10-C9-N1	2.67	110.42	105.99
4	A	501	TLA	O3-C3-C2	2.64	115.47	110.23
3	A	102	TFX	C10-C9-N1	2.39	109.95	105.99
4	A	501	TLA	O11-C1-O1	-2.39	118.67	124.09
3	В	101	TFX	C7-C2-N2	-2.31	118.51	121.63
4	A	501	TLA	O3-C3-C4	-2.30	105.83	110.66
4	A	501	TLA	O11-C1-C2	2.16	119.12	113.27
5	A	1428	ACT	OXT-C-O	-2.04	114.54	122.05

There are no chirality outliers.

All (10) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	A	501	TLA	C1-C2-C3-C4
4	A	501	TLA	O2-C2-C3-O3
4	A	501	TLA	O2-C2-C3-C4
4	A	501	TLA	C1-C2-C3-O3
4	A	501	TLA	O3-C3-C4-O41
4	A	501	TLA	C2-C3-C4-O4
4	A	501	TLA	C2-C3-C4-O41
4	A	501	TLA	O3-C3-C4-O4
4	A	501	TLA	O1-C1-C2-C3
4	A	501	TLA	O11-C1-C2-C3

There are no ring outliers.

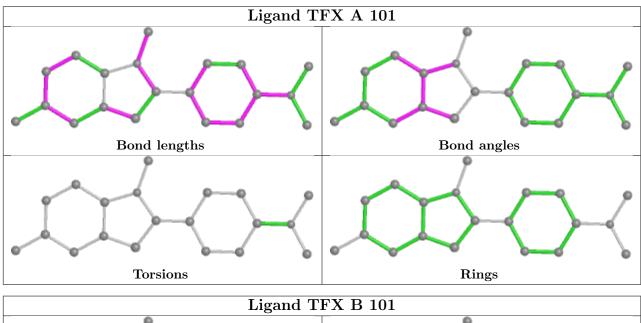
3 monomers are involved in 3 short contacts:

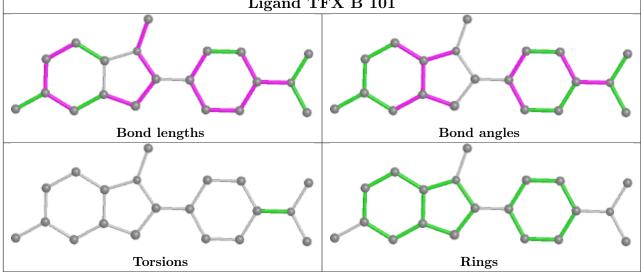
Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	В	1428	ACT	1	0
4	A	501	TLA	1	0
3	A	102	TFX	1	0

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.

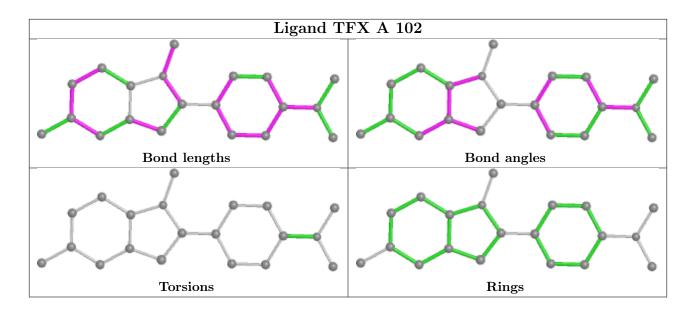


Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD 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	$\langle { m RSRZ} \rangle$	$\#\mathrm{RSRZ}{>}2$	$\mathbf{OWAB}(\mathbf{\mathring{A}}^2)$	Q<0.9
1	A	97/100 (97%)	0.80	12 (12%) 4 3	24, 33, 51, 76	0
1	В	98/100 (98%)	0.50	8 (8%) 11 10	19, 31, 52, 61	0
All	All	195/200 (97%)	0.64	20 (10%) 6 5	19, 32, 52, 76	0

All (20) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	59	ASP	5.5
1	A	56	PHE	4.7
1	В	58	LYS	4.5
1	A	47	GLU	3.9
1	A	23	LEU	3.5
1	A	58	LYS	3.3
1	A	48	LYS	3.1
1	В	49	VAL	2.9
1	A	74	GLU	2.7
1	В	75	LYS	2.5
1	В	48	LYS	2.5
1	A	88	SER	2.3
1	A	89	GLN	2.3
1	В	74	GLU	2.2
1	В	39	LEU	2.2
1	A	57	SER	2.2
1	A	75	LYS	2.2
1	A	19	LYS	2.1
1	В	96	ASP	2.1
1	В	23	LEU	2.1



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.

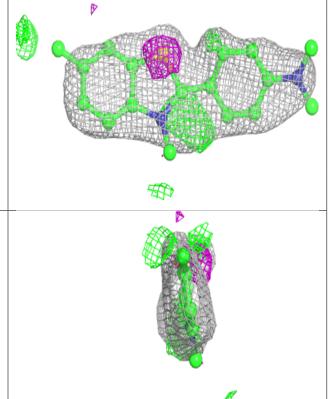
6.4 Ligands (i)

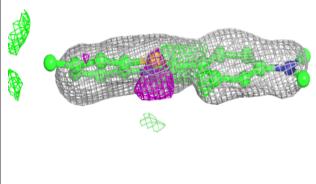
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' 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
4	TLA	A	501	10/10	0.69	0.22	38,45,47,48	0
2	HG	A	100	1/1	0.71	0.17	278,278,278,278	0
3	TFX	A	102	20/20	0.77	0.21	44,48,52,52	0
5	ACT	A	1428	4/4	0.77	0.16	52,54,54,54	0
5	ACT	A	103	4/4	0.87	0.12	62,62,62,63	0
3	TFX	A	101	20/20	0.93	0.12	32,34,38,39	0
5	ACT	В	1428	4/4	0.94	0.09	34,40,40,42	0
3	TFX	В	101	20/20	0.95	0.08	28,32,37,37	0

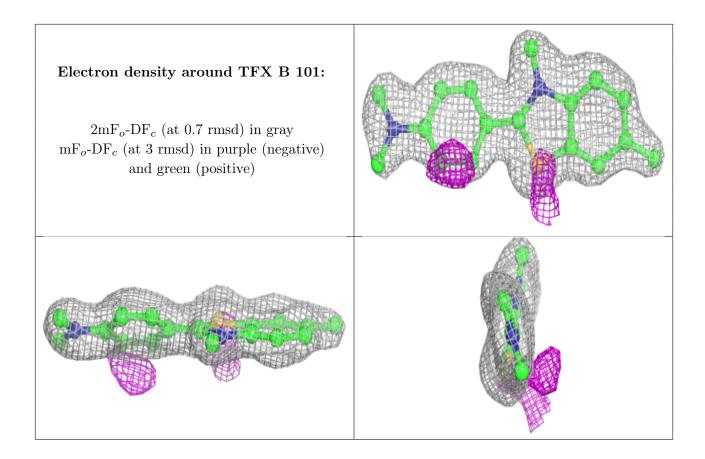
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.











6.5 Other polymers (i)

There are no such residues in this entry.

