

# Full wwPDB X-ray Structure Validation Report (i)

#### Oct 15, 2023 – 01:47 PM EDT

PDB ID : 7T2K

Title: Crystal Structure of TEAD2 in a covalent complex with TED-661

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Deposited on : 2021-12-05

Resolution : 2.34 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 : 5.8.0158

CCP4 : 7.0.044 (Gargrove)

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

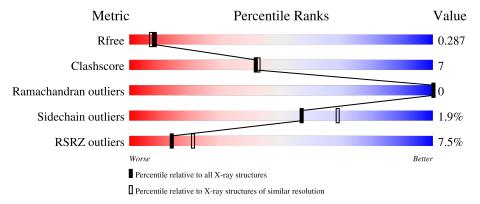
Validation Pipeline (wwPDB-VP) : 2.36

## 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 2.34 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	2096 (2.36-2.32)
Clashscore	141614	2193 (2.36-2.32)
Ramachandran outliers	138981	2159 (2.36-2.32)
Sidechain outliers	138945	2160 (2.36-2.32)
RSRZ outliers	127900	2067 (2.36-2.32)

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	234	66%	17%	17%			
1	В	234	75%	13%	6 12%			

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
2	ED0	A	501	_	-	-	X



# 2 Entry composition (i)

There are 3 unique types of molecules in this entry. The entry contains 3417 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.

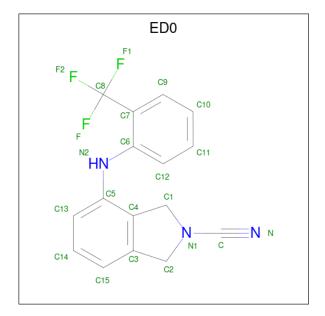
• Molecule 1 is a protein called Transcriptional enhancer factor TEF-4.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
1	В	207	Total	С	11	0	S	0	0	0
			1707	1095	297	307	8	Ů	Ü	
1	Λ	194	Total	С	N	О	S	0	0	0
1	Λ	194	1604	1030	279	287	8		0	

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
В	214	GLY	-	expression tag	UNP Q15562
В	215	HIS	-	expression tag	UNP Q15562
В	216	MET	-	expression tag	UNP Q15562
A	214	GLY	-	expression tag	UNP Q15562
A	215	HIS	-	expression tag	UNP Q15562
A	216	MET	-	expression tag	UNP Q15562

• Molecule 2 is 4-[2-(trifluoromethyl)anilino]-1,3-dihydro-2H-isoindole-2-carbonitrile (three-letter code: ED0) (formula:  $C_{16}H_{12}F_3N_3$ ) (labeled as "Ligand of Interest" by depositor).





Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	В	1	Total C F N 22 16 3 3	0	0
2	A	1	Total C F N 22 16 3 3	0	0

## $\bullet\,$ Molecule 3 is water.

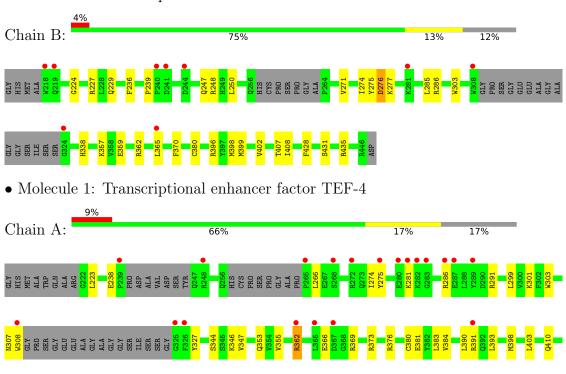
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	В	34	Total O 34 34	0	0
3	A	28	Total O 28 28	0	0



## 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: Transcriptional enhancer factor TEF-4





# 4 Data and refinement statistics (i)

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants	121.91Å 61.27Å 79.74Å	Donositor
a, b, c, $\alpha$ , $\beta$ , $\gamma$	$90.00^{\circ}$ $117.46^{\circ}$ $90.00^{\circ}$	Depositor
Resolution (Å)	48.16 - 2.34	Depositor
Resolution (A)	48.16 - 2.34	EDS
% Data completeness	56.2 (48.16-2.34)	Depositor
(in resolution range)	56.3 (48.16-2.34)	EDS
$R_{merge}$	(Not available)	Depositor
$R_{sym}$	0.12	Depositor
$< I/\sigma(I) > 1$	2.11 (at 2.34Å)	Xtriage
Refinement program	PHENIX 1.19.2_4158	Depositor
D D.	0.233 , 0.286	Depositor
$R, R_{free}$	0.233 , $0.287$	DCC
$R_{free}$ test set	660 reflections (5.26%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	39.9	Xtriage
Anisotropy	0.152	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$ , $B_{sol}(Å^2)$	0.38, 53.4	EDS
L-test for twinning <sup>2</sup>	$ < L >=0.50, < L^2>=0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.90	EDS
Total number of atoms	3417	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	44.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 13.31% of the height of the origin peak. No significant pseudotranslation is detected.

<sup>&</sup>lt;sup>2</sup>Theoretical 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.



 $<sup>^1 {\</sup>rm Intensities}$  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: ED0

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).

Mal	Mol Chain		lengths	Bond angles		
IVIOI	Chain	RMSZ	# Z  > 5	RMSZ	# Z  > 5	
1	A	0.28	0/1640	0.55	1/2210 (0.0%)	
1	В	0.34	0/1749	0.53	0/2363	
All	All	0.31	0/3389	0.54	1/4573 (0.0%)	

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 mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
1	A	380	CYS	CA-CB-SG	-5.94	103.30	114.00

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	281	LYS	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	1604	0	1583	26	0
1	В	1707	0	1673	20	0
2	A	22	0	0	0	0
2	В	22	0	0	1	0
3	A	28	0	0	0	0
3	В	34	0	0	0	0
All	All	3417	0	3256	46	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 7.

All (46) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

A 4 1	A 4 0	Interatomic	Clash
Atom-1	Atom-2	${\rm distance}(\mathring{\rm A})$	overlap (Å)
1:B:224:GLY:HA3	1:B:229:GLN:HG3	1.57	0.86
1:B:365:LEU:HD13	1:B:370:PHE:HE2	1.46	0.80
1:A:362:ARG:H	1:A:362:ARG:HD2	1.59	0.68
1:B:365:LEU:HD13	1:B:370:PHE:CE2	2.32	0.63
1:A:291:ARG:HG3	1:A:291:ARG:HH11	1.63	0.62
1:B:271:VAL:O	1:B:274:ILE:HG22	2.02	0.59
1:B:396:ARG:HA	1:B:399:MET:HG3	1.84	0.59
1:A:307:ASN:ND2	1:A:433:SER:OG	2.36	0.56
1:A:381:GLU:HA	1:A:384:VAL:HG12	1.86	0.56
1:B:338:HIS:HB2	1:B:370:PHE:CE1	2.41	0.55
1:B:357:LYS:HE2	1:B:359:GLU:HG3	1.87	0.55
1:A:346:LYS:HD3	1:A:353:GLN:NE2	2.23	0.54
1:B:236:PHE:HB3	1:B:250:LEU:HD23	1.90	0.54
1:A:238:GLU:CD	1:A:376:ARG:HH12	2.11	0.53
1:A:301:LYS:HD2	1:A:442:TYR:HE2	1.72	0.53
1:A:303:TRP:CD1	1:A:429:GLU:HB2	2.45	0.52
1:A:274:ILE:HD13	1:A:299:LEU:HD13	1.92	0.51
1:A:362:ARG:H	1:A:362:ARG:CD	2.23	0.51
1:A:307:ASN:OD1	1:A:391:ARG:NH2	2.44	0.50
1:A:366:GLU:HG3	1:A:373:ARG:HH12	1.76	0.50
1:A:266:LEU:HD13	1:A:441:ILE:HG22	1.94	0.50
1:B:408:ILE:HD12	1:B:428:PHE:CZ	2.48	0.48
1:B:398:MET:O	1:B:402:VAL:HG23	2.14	0.48
1:A:393:LEU:HD23	1:A:398:MET:HB3	1.94	0.47
1:A:417:THR:OG1	1:A:419:GLU:HG2	2.14	0.47
1:B:274:ILE:HD12	1:B:277:LYS:HG3	1.96	0.46

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A 4 1	A 4 0	Interatomic	Clash
Atom-1	Atom-2	${\rm distance}\ ({\rm \AA})$	overlap (Å)
1:B:275:TYR:CE1	1:B:286:ARG:HG2	2.49	0.46
1:A:223:LEU:HD12	1:A:441:ILE:HG12	1.98	0.46
1:A:366:GLU:HG3	1:A:373:ARG:NH1	2.32	0.45
1:A:366:GLU:CG	1:A:373:ARG:HH12	2.30	0.45
1:A:327:TYR:CE2	1:A:384:VAL:HG23	2.53	0.44
1:B:271:VAL:HG13	1:B:275:TYR:CE2	2.53	0.44
1:B:380:CYS:H	2:B:501:ED0:C	2.31	0.44
1:A:390:LEU:HD21	1:A:403:LEU:HD11	2.01	0.43
1:A:347:VAL:HB	1:A:355:VAL:HB	2.00	0.43
1:B:277:LYS:HB3	1:B:407:THR:HG21	2.00	0.43
1:A:299:LEU:HD23	1:A:442:TYR:HD2	1.84	0.43
1:B:239:PRO:HD2	1:B:247:GLN:O	2.18	0.43
1:B:303:TRP:HB3	1:B:431:SER:HB3	2.00	0.42
1:B:274:ILE:HG23	1:B:285:LEU:HD23	2.01	0.42
1:A:275:TYR:CZ	1:A:286:ARG:HG2	2.55	0.42
1:A:344:SER:O	1:A:410:GLN:HA	2.20	0.41
1:B:276:ASP:OD1	1:B:276:ASP:N	2.52	0.41
1:B:338:HIS:HB2	1:B:370:PHE:HE1	1.86	0.41
1:A:308:TRP:CZ3	1:A:391:ARG:HD2	2.56	0.41
1:A:347:VAL:HG21	1:A:383:LEU:HD11	2.03	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	Perce	ntiles
1	A	186/234 (80%)	182 (98%)	4 (2%)	0	100	100
1	В	201/234 (86%)	193 (96%)	8 (4%)	0	100	100
All	All	387/468 (83%)	375 (97%)	12 (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	Perce	ntiles
1	A	177/203 (87%)	175 (99%)	2 (1%)	73	83
1	В	187/203 (92%)	182 (97%)	5 (3%)	44	55
All	All	364/406 (90%)	357 (98%)	7 (2%)	57	68

All (7) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	В	227	ARG
1	В	248	ARG
1	В	276	ASP
1	В	362	ARG
1	В	435	ARG
1	A	362	ARG
1	A	369	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (5) such sidechains are listed below:

Mol	Chain	Res	Type
1	В	247	GLN
1	В	307	ASN
1	В	338	HIS
1	В	440	HIS
1	A	353	GLN

#### 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)

2 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	ol Type Chain Res Link			Bo	Bond lengths			Bond angles		
MIOI	Type	Chain	nes	Lilik	Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z >2
2	ED0	A	501	1	24,24,24	3.07	4 (16%)	30,35,35	7.93	10 (33%)
2	ED0	В	501	1	24,24,24	2.45	4 (16%)	30,35,35	7.85	11 (36%)

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	ED0	A	501	1	-	1/10/20/20	0/3/3/3
2	ED0	В	501	1	-	0/10/20/20	0/3/3/3

All (8) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(A)	$\operatorname{Ideal}(\text{\AA})$
2	A	501	ED0	C6-C7	9.66	1.51	1.40
2	A	501	ED0	C5-C4	9.25	1.51	1.40
2	В	501	ED0	C5-C4	6.79	1.48	1.40
2	В	501	ED0	C6-C7	6.72	1.47	1.40
2	В	501	ED0	C-N	5.71	1.28	1.15
2	A	501	ED0	C-N	5.10	1.26	1.15
2	A	501	ED0	C3-C4	3.52	1.46	1.40
2	В	501	ED0	C3-C4	2.79	1.45	1.40

All (21) bond angle outliers are listed below:



Mol	Chain	Res	Type	Atoms	Z	$\operatorname{Observed}({}^{o})$	$\operatorname{Ideal}(^{o})$
2	В	501	ED0	N1-C-N	-41.15	117.86	177.70
2	A	501	ED0	N1-C-N	-41.15	117.87	177.70
2	A	501	ED0	C8-C7-C6	8.57	127.01	120.72
2	В	501	ED0	C7-C6-N2	-5.65	114.82	120.58
2	В	501	ED0	F1-C8-C7	-5.13	103.78	112.70
2	A	501	ED0	C13-C5-C4	-4.68	114.90	120.68
2	A	501	ED0	C12-C6-C7	-4.65	115.30	119.88
2	В	501	ED0	C13-C5-C4	-4.23	115.45	120.68
2	В	501	ED0	C8-C7-C6	-4.11	117.70	120.72
2	A	501	ED0	C7-C6-N2	3.85	124.51	120.58
2	A	501	ED0	C4-C5-N2	3.71	127.02	119.57
2	В	501	ED0	C12-C6-N2	2.87	127.30	121.39
2	A	501	ED0	C14-C13-C5	2.79	124.43	118.62
2	В	501	ED0	C13-C5-N2	2.73	127.01	121.39
2	A	501	ED0	F2-C8-C7	-2.72	107.96	112.70
2	В	501	ED0	C14-C15-C3	-2.55	117.09	120.89
2	В	501	ED0	C9-C7-C6	2.36	121.27	118.33
2	A	501	ED0	F-C8-C7	-2.34	108.62	112.70
2	A	501	ED0	C9-C7-C8	-2.34	113.46	118.12
2	В	501	ED0	C15-C14-C13	2.30	123.51	120.25
2	В	501	ED0	C12-C6-C7	-2.03	117.88	119.88

There are no chirality outliers.

All (1) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	501	ED0	C6-C7-C8-F

There are no ring outliers.

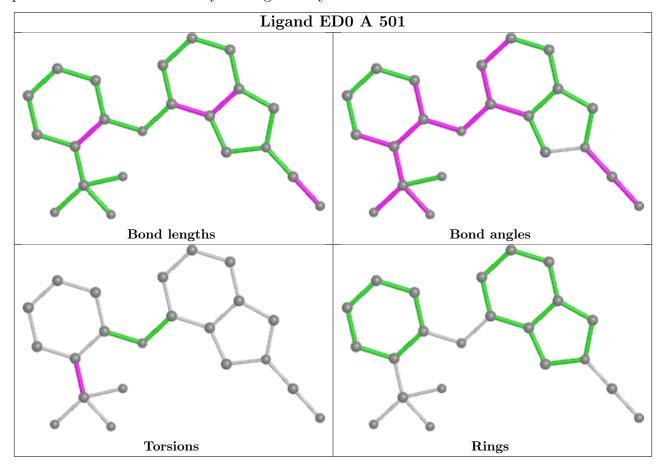
1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	В	501	ED0	1	0

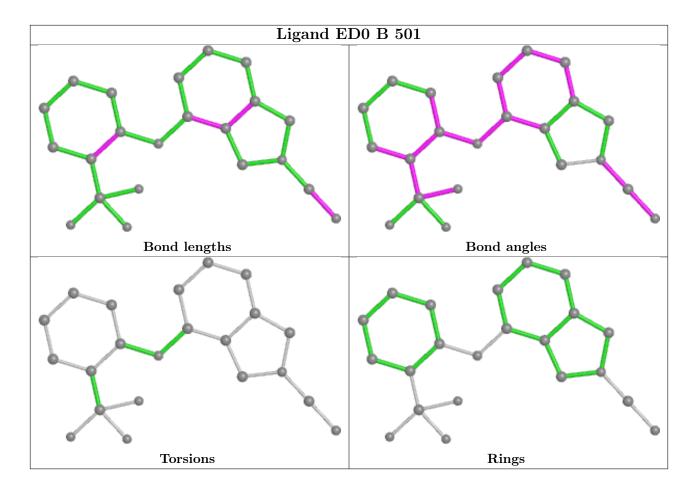
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. 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	$\langle { m RSRZ} \rangle$	$\#\mathrm{RSRZ}{>}2$	$OWAB(A^2)$	Q<0.9
1	A	194/234 (82%)	0.58	21 (10%) 5 9	18, 46, 73, 100	0
1	В	207/234 (88%)	0.26	9 (4%) 35 46	19, 37, 66, 84	0
All	All	401/468 (85%)	0.41	30 (7%) 14 21	18, 42, 71, 100	0

All (30) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	282	LYS	6.1
1	A	283	GLY	5.6
1	A	281	LYS	5.3
1	A	325	GLY	5.1
1	В	324	GLY	4.9
1	A	272	ARG	4.6
1	В	244	ASP	4.4
1	A	239	PRO	4.1
1	В	281	LYS	3.6
1	A	308	TRP	3.3
1	A	362	ARG	3.3
1	A	286	ARG	3.2
1	В	218	TRP	3.2
1	A	446	ARG	3.2
1	A	326	PHE	3.1
1	В	240	PRO	3.1
1	A	275	TYR	2.9
1	A	391	ARG	2.7
1	В	241	ASP	2.6
1	В	308	TRP	2.5
1	A	280	GLU	2.5
1	A	287	GLU	2.5
1	A	248	ARG	2.4
1	A	365	LEU	2.3

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Mol	Chain	Res	Type	RSRZ
1	A	268	SER	2.3
1	A	289	TYR	2.3
1	A	367	ASP	2.0
1	В	365	LEU	2.0
1	В	219	GLN	2.0
1	A	265	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.

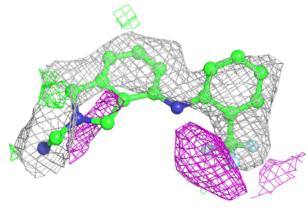
Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q<0.9
2	ED0	A	501	22/22	0.68	0.43	63,73,96,113	0
2	ED0	В	501	22/22	0.81	0.38	64,79,94,99	0

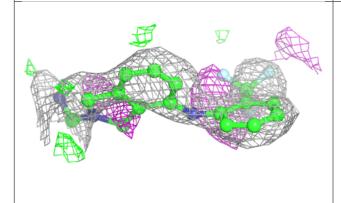
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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

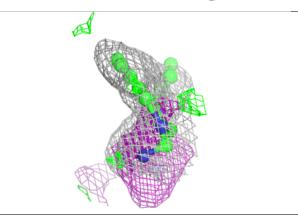


# Electron density around ED0 A 501:

 $2 {\rm mF}_o\text{-}{\rm DF}_c$  (at 0.7 rmsd) in gray  ${\rm mF}_o\text{-}{\rm DF}_c$  (at 3 rmsd) in purple (negative) and green (positive)

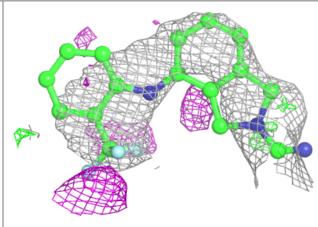


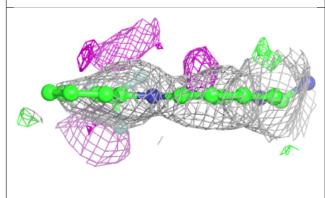


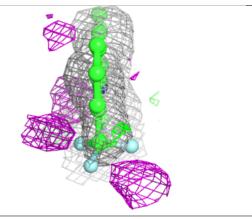


#### Electron density around ED0 B 501:

 $2 {
m mF}_o {
m -DF}_c$  (at 0.7 rmsd) in gray  ${
m mF}_o {
m -DF}_c$  (at 3 rmsd) in purple (negative) and green (positive)









# 6.5 Other polymers (i)

There are no such residues in this entry.

