

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

Oct 3, 2023 – 10:06 PM EDT

PDB ID : 6U2H

Title: BRAF dimer bound to 14-3-3

Authors: Liau, N.P.D.; Hymowitz, S.G.; Sudhamsu, J.

Deposited on : 2019-08-19

Resolution : 2.50 Å(reported)

This is a wwPDB X-ray Structure Validation Summary 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 : 2.35.1

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)

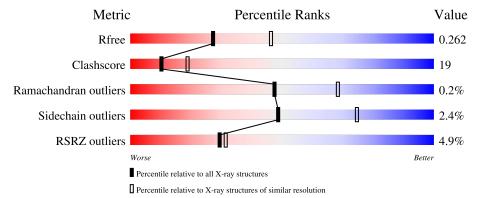
Validation Pipeline (wwPDB-VP) : 2.35.1

## 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 2.50 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	Similar resolution
Metric	$(\# \mathrm{Entries})$	$(\#  ext{Entries},  ext{ resolution range}( ext{Å}))$
$R_{free}$	130704	4661 (2.50-2.50)
Clashscore	141614	5346 (2.50-2.50)
Ramachandran outliers	138981	5231 (2.50-2.50)
Sidechain outliers	138945	5233 (2.50-2.50)
RSRZ outliers	127900	4559 (2.50-2.50)

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	232	75%	24%	
1	В	232		40%	
2	С	290	68%	26%	• 5%
2	D	290	72%	24%	•••



# 2 Entry composition (i)

There are 4 unique types of molecules in this entry. The entry contains 8161 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 14-3-3 protein zeta/delta.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace	
1	Λ	230	Total	С	N	О	S	0	1	0
1	A	230	1843	1154	309	370	10	0	1	U
1	D	223	Total	С	N	О	S	0	0	0
1	Б	223	1787	1121	302	354	10	0	0	

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-1	GLY	-	expression tag	UNP P63104
A	0	SER	-	expression tag	UNP P63104
В	-1	GLY	-	expression tag	UNP P63104
В	0	SER	-	expression tag	UNP P63104

• Molecule 2 is a protein called Serine/threonine-protein kinase B-raf.

Mol	Chain	Residues		Atoms				ZeroOcc	AltConf	Trace	
2	С	275	Total	С	N	О	Р	S	0	0	0
2		210	2199	1388	394	403	1	13	0	U	0
2	D	283	Total	С	N	О	Р	S	0	0	0
	ש	200	2261	1426	404	417	1	13	0	U	0

There are 30 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
С	446	GLY	-	expression tag	UNP P15056
С	543	ALA	ILE	conflict	UNP P15056
С	544	SER	ILE	conflict	UNP P15056
С	551	LYS	ILE	conflict	UNP P15056
С	562	ARG	GLN	conflict	UNP P15056
С	588	ASN	LEU	conflict	UNP P15056
С	630	SER	LYS	conflict	UNP P15056
С	667	GLU	PHE	conflict	UNP P15056

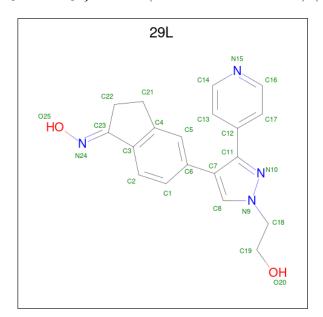
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Chain	Residue	Modelled	Actual	Comment	Reference
С	673	SER	TYR	conflict	UNP P15056
С	688	ARG	ALA	conflict	UNP P15056
С	706	SER	LEU	conflict	UNP P15056
С	709	ARG	GLN	conflict	UNP P15056
С	713	GLU	SER	conflict	UNP P15056
С	716	GLU	LEU	conflict	UNP P15056
С	720	GLU	SER	conflict	UNP P15056
D	446	GLY	-	expression tag	UNP P15056
D	543	ALA	ILE	conflict	UNP P15056
D	544	SER	ILE	$\operatorname{conflict}$	UNP P15056
D	551	LYS	ILE	conflict	UNP P15056
D	562	ARG	GLN	conflict	UNP P15056
D	588	ASN	LEU	conflict	UNP P15056
D	630	SER	LYS	conflict	UNP P15056
D	667	GLU	PHE	conflict	UNP P15056
D	673	SER	TYR	conflict	UNP P15056
D	688	ARG	ALA	$\operatorname{conflict}$	UNP P15056
D	706	SER	LEU	conflict	UNP P15056
D	709	ARG	GLN	conflict	UNP P15056
D	713	GLU	SER	conflict	UNP P15056
D	716	GLU	LEU	conflict	UNP P15056
D	720	GLU	SER	conflict	UNP P15056

 $\bullet$  Molecule 3 is 2-{4-[(1E)-1-(hydroxyimino)-2,3-dihydro-1H-inden-5-yl]-3-(pyridin-4-yl)-1H-p yrazol-1-yl}ethanol (three-letter code: 29L) (formula:  $C_{19}H_{18}N_4O_2).$ 





$\mathbf{Mol}$	Chain	Residues	Atoms	ZeroOcc	AltConf
3	С	1	Total C N O 25 19 4 2	0	0
3	D	1	Total C N O 25 19 4 2	0	0

## $\bullet$ Molecule 4 is water.

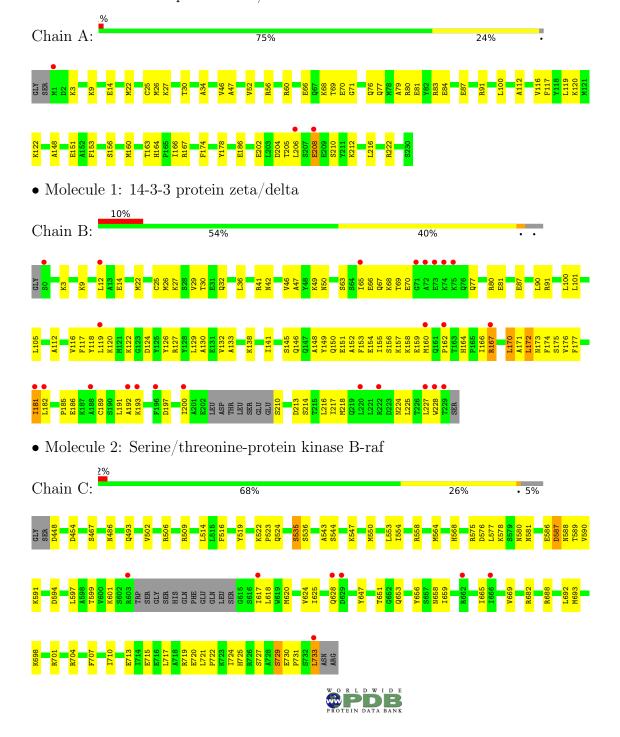
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	7	Total O 7 7	0	0
4	В	1	Total O 1 1	0	0
4	С	11	Total O 11 11	0	0
4	D	2	Total O 2 2	0	0



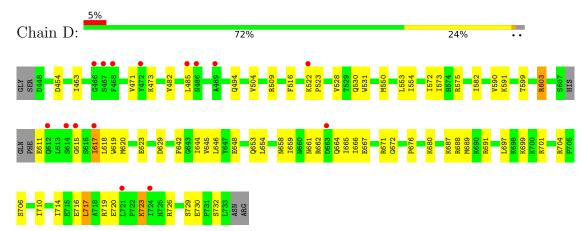
# 3 Residue-property plots (i)

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: 14-3-3 protein zeta/delta



• Molecule 2: Serine/threonine-protein kinase B-raf





# 4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants	61.50Å 115.75Å 153.09Å	Donositon
a, b, c, $\alpha$ , $\beta$ , $\gamma$	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	34.45 - 2.50	Depositor
Resolution (A)	92.33 - 2.50	EDS
% Data completeness	99.4 (34.45-2.50)	Depositor
(in resolution range)	87.5 (92.33-2.50)	EDS
$R_{merge}$	0.08	Depositor
$R_{sym}$	(Not available)	Depositor
$< I/\sigma(I) > 1$	0.47 (at 2.51Å)	Xtriage
Refinement program	PHENIX 1.12-2829_final	Depositor
D D.	0.220 , 0.263	Depositor
$R, R_{free}$	0.220 , $0.262$	DCC
$R_{free}$ test set	1561 reflections $(4.07\%)$	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	61.0	Xtriage
Anisotropy	0.454	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$ , $B_{sol}(Å^2)$	0.31, 59.2	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	0.94	EDS
Total number of atoms	8161	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	95.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 4.08% 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>&</sup>lt;sup>1</sup>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: 29L, SEP

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	0.36	0/1868	0.58	0/2510	
1	В	0.56	0/1811	0.73	0/2432	
2	С	0.58	0/2233	0.72	0/3007	
2	D	0.51	0/2297	0.73	0/3094	
All	All	0.51	0/8209	0.69	0/11043	

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	1843	0	1825	46	0
1	В	1787	0	1782	129	0
2	С	2199	0	2218	85	0
2	D	2261	0	2271	69	0
3	С	25	0	18	0	0
3	D	25	0	18	1	0
4	A	7	0	0	0	0
4	В	1	0	0	0	0
4	С	11	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	D	2	0	0	0	0
All	All	8161	0	8132	306	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 19.

The worst 5 of 306 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	$\begin{array}{c} {\rm Interatomic} \\ {\rm distance} \ ({\rm \AA}) \end{array}$	Clash overlap (Å)
2:C:575:ARG:HH21	2:C:599:THR:HB	1.20	1.02
1:B:157:LYS:CG	1:B:167:ARG:HE	1.72	1.02
1:B:87:GLU:HG3	1:B:132:VAL:HG21	1.40	1.00
2:D:659:ILE:HD11	2:D:665:ILE:CG1	1.92	0.99
1:B:157:LYS:HG2	1:B:167:ARG:HE	1.28	0.96

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	A	$228/232 \ (98\%)$	224 (98%)	4 (2%)	0	100	100
1	В	219/232~(94%)	207 (94%)	11 (5%)	1 (0%)	29	48
2	C	$270/290\ (93\%)$	253 (94%)	16 (6%)	1 (0%)	34	54
2	D	278/290~(96%)	264 (95%)	14 (5%)	0	100	100
All	All	995/1044 (95%)	948 (95%)	45 (4%)	2 (0%)	47	68

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	С	731	PRO

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Mol	Chain	Res	Type
1	В	68	LYS

#### 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	$200/201 \; (100\%)$	196 (98%)	4 (2%)	55 79		
1	В	193/201 (96%)	188 (97%)	5 (3%)	46 72		
2	$\mathbf{C}$	241/254~(95%)	236 (98%)	5 (2%)	53 78		
2	D	248/254 (98%)	241 (97%)	7 (3%)	43 70		
All	All	882/910 (97%)	861 (98%)	21 (2%)	49 74		

5 of 21 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	D	603	ARG
2	D	629	ASP
2	D	723	LYS
2	D	662	ARG
2	D	617	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 22 such sidechains are listed below:

Mol	Chain	Res	Type
2	С	588	ASN
2	D	612	GLN
2	D	542	HIS
2	D	631	ASN
1	В	111	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)

2 non-standard protein/DNA/RNA residues 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).

1	Mol	Type Chain		a Ros	Res Link	Bond lengths			Bond angles		
10.		Type	Chain	nes	Lilik	Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
	2	SEP	D	729	2	8,9,10	1.92	3 (37%)	8,12,14	1.93	2 (25%)
	2	SEP	С	729	2	8,9,10	0.87	0	8,12,14	1.75	1 (12%)

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	SEP	D	729	2	-	2/5/8/10	-
2	SEP	С	729	2	-	0/5/8/10	-

#### All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\operatorname{Observed}(\text{\AA})$	$\operatorname{Ideal}( ext{\AA})$
2	D	729	SEP	P-O2P	-2.96	1.43	1.54
2	D	729	SEP	P-O3P	-2.69	1.44	1.54
2	D	729	SEP	P-O1P	-2.01	1.44	1.50

#### All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
2	С	729	SEP	OG-CB-CA	4.10	112.13	108.14
2	D	729	SEP	OG-CB-CA	3.87	111.91	108.14
2	D	729	SEP	O3P-P-O1P	2.30	119.68	110.68

There are no chirality outliers.

All (2) torsion outliers are listed below:



Mol	Chain	Res	Type	Atoms
2	D	729	SEP	CB-OG-P-O1P
2	D	729	SEP	CB-OG-P-O2P

There are no ring outliers.

1 monomer is involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	С	729	SEP	3	0

### 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	Type	Chain	Res	Link	Bond lengths			Bond angles		
MIOI					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
3	29L	D	801	-	26,28,28	0.97	1 (3%)	28,39,39	1.94	7 (25%)
3	29L	С	801	-	26,28,28	1.03	1 (3%)	28,39,39	1.74	4 (14%)

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.

M	ol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	}	29L	D	801	-	-	2/13/22/22	0/4/4/4
3	}	29L	С	801	-	-	2/13/22/22	0/4/4/4

All (2) bond length outliers are listed below:



Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	$\operatorname{Observed}(\text{\AA})$	$\operatorname{Ideal}(\text{\AA})$
3	С	801	29L	C11-N10	-4.16	1.32	1.35
3	D	801	29L	C11-N10	-4.04	1.32	1.35

The worst 5 of 11 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
3	D	801	29L	O25-N24-C23	5.71	120.33	112.50
3	С	801	29L	O25-N24-C23	5.64	120.24	112.50
3	D	801	29L	C8-N9-N10	-4.00	108.31	111.45
3	С	801	29L	C8-N9-N10	-3.73	108.53	111.45
3	D	801	29L	C21-C4-C3	-3.70	109.24	111.27

There are no chirality outliers.

All (4) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	С	801	29L	C22-C23-N24-O25
3	D	801	29L	N9-C18-C19-O20
3	D	801	29L	C22-C23-N24-O25
3	С	801	29L	C19-C18-N9-C8

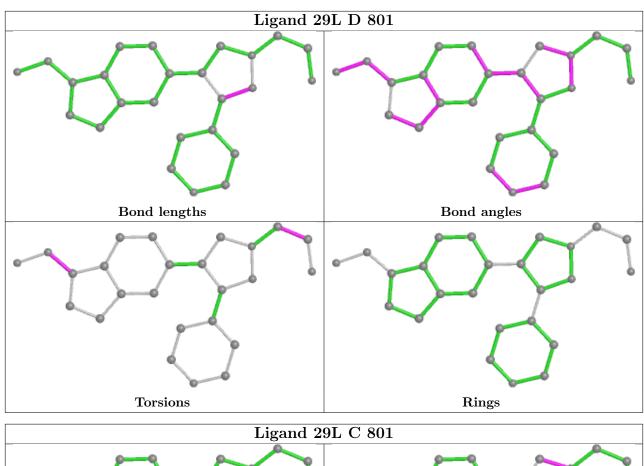
There are no ring outliers.

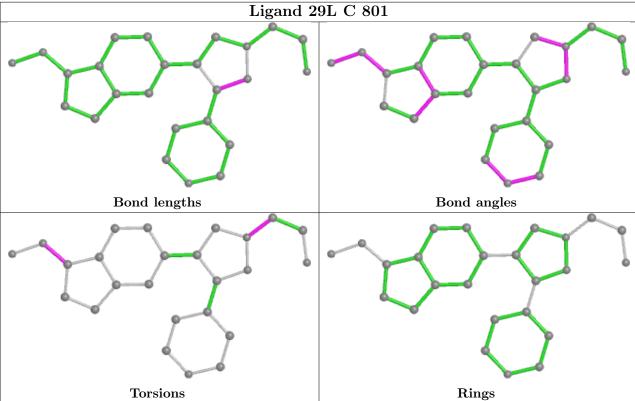
1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	D	801	29L	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>	$\# \mathrm{RSRZ}{>}2$	$OWAB(A^2)$	Q < 0.9
1	A	230/232 (99%)	0.11	3 (1%) 77 79	54, 77, 121, 171	0
1	В	223/232 (96%)	0.63	24 (10%) 5 5	65, 116, 157, 192	0
2	С	274/290 (94%)	0.22	7 (2%) 56 59	57, 84, 138, 200	1 (0%)
2	D	282/290 (97%)	0.38	15 (5%) 26 28	57, 91, 155, 196	0
All	All	1009/1044 (96%)	0.33	49 (4%) 29 31	54, 88, 153, 200	1 (0%)

The worst 5 of 49 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	D	612	GLN	6.3
1	В	167	ARG	4.8
1	В	220	LEU	4.7
1	В	227	LEU	4.5
2	D	615	GLY	4.2

## 6.2 Non-standard residues in protein, DNA, RNA chains (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	$\operatorname{Res}$	Atoms	RSCC	RSR	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q<0.9
2	SEP	С	729	10/11	0.94	0.17	91,107,120,120	0
2	SEP	D	729	10/11	0.98	0.15	55,58,62,65	0

## 6.3 Carbohydrates (i)

There are no monosaccharides in this entry.

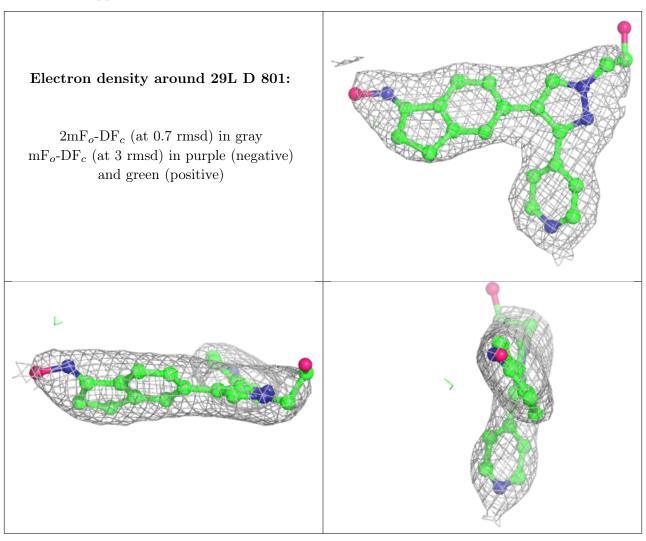


## 6.4 Ligands (i)

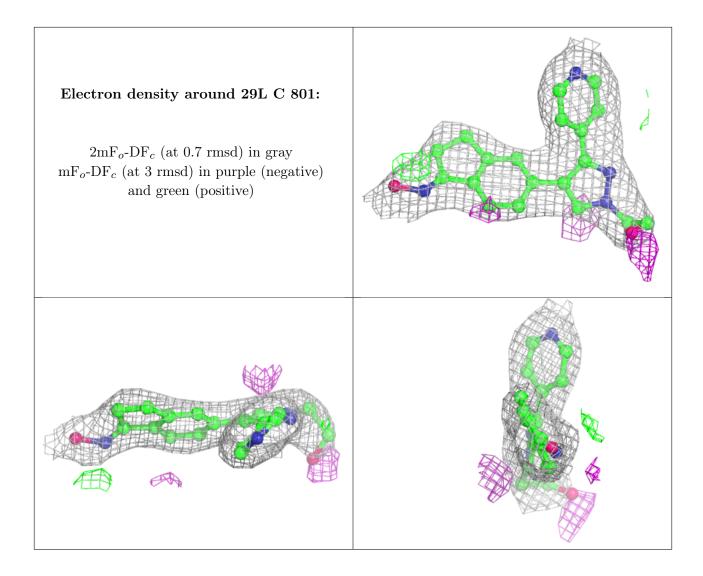
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median,  $95^{th}$  percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' 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
3	29L	D	801	25/25	0.95	0.20	69,82,103,115	0
3	29L	С	801	25/25	0.96	0.19	44,65,74,83	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.

