

Full wwPDB X-ray Structure Validation Report (i)

Jan 6, 2024 – 09:09 pm GMT

:	6FBW
:	Crystal structure of C-terminal modified Tau peptide-hybrid 4.2f-II with 14-
	3-3sigma
:	Andrei, S.A.; Meijer, F.A.; Ottmann, C.; Milroy, L.G.
	2017-12-20
:	1.45 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.

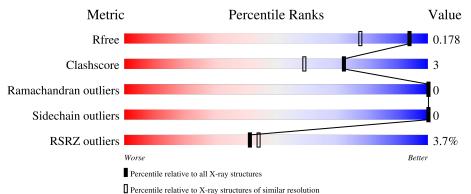
The following versions of software and data (see references (1)) were used in the production of this report:

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 1.45 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	1156 (1.46-1.46)
Clashscore	141614	1202 (1.46-1.46)
Ramachandran outliers	138981	1178 (1.46-1.46)
Sidechain outliers	138945	1178 (1.46-1.46)
RSRZ outliers	127900	1139 (1.46-1.46)

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 a	chain	
1	А	236	2%	90%		6% •
1	С	236	5%	89%		7% •
2	В	7	43%		57%	
2	D	7	14%		29%	14%



6 FBW

2 Entry composition (i)

There are 6 unique types of molecules in this entry. The entry contains 8829 atoms, of which 4087 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 sigma.

Mol	Chain	Residues			Atom	s			ZeroOcc	AltConf	Trace
1	А	227	Total 4075	C 1263	Н 2064	N 335	O 399	S 14	0	39	0
1	С	227	Total 3854	C 1199	Н	N 321	0 385	S 13	0	25	0

	There are 10	discrepancies	between	the modelled	and	reference sequences:	
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Chain	Residue	Modelled	Actual	Comment	Reference
A	-4	GLY	-	expression tag	UNP P31947
А	-3	ALA	-	expression tag	UNP P31947
A	-2	MET	-	expression tag	UNP P31947
А	-1	GLY	-	expression tag	UNP P31947
А	0	SER	-	expression tag	UNP P31947
С	-4	GLY	-	expression tag	UNP P31947
С	-3	ALA	-	expression tag	UNP P31947
С	-2	MET	-	expression tag	UNP P31947
С	-1	GLY	-	expression tag	UNP P31947
С	0	SER	-	expression tag	UNP P31947

• Molecule 2 is a protein called ARG-THR-PRO-SEP-LEU-PRO-GLY.

Mol	Chain	Residues		I	Aton	ns			ZeroOcc	AltConf	Trace
0	Р	7	Total	С	Η	Ν	0	Р	0	0	0
	D	1	104	31	50	10	12	1			0
0	П	6	Total	С	Η	Ν	0	Р	0	0	0
	D	0	80	25	37	6	11	1	0	0	0

• Molecule 3 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atom	S	ZeroOcc	AltConf
3	А	1	Total 1	Cl 1	0	0

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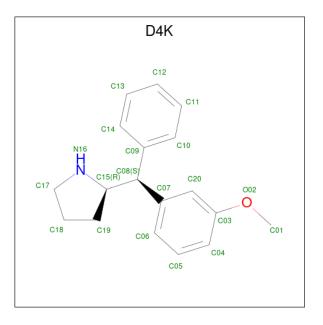
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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	С	1	Total Cl 1 1	0	0

• Molecule 4 is SODIUM ION (three-letter code: NA) (formula: Na).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	А	4	Total Na 4 4	0	0

• Molecule 5 is (2 {R})-2-[({S})-(3-methoxyphenyl)-phenyl-methyl]pyrrolidine (three-letter code: D4K) (formula: C₁₈H₂₁NO) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	В	1	Total C N O 20 18 1 1	0	0
5	D	1	Total C N O 20 18 1 1	0	0

• Molecule 6 is water.

-	Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
	6	А	344	Total O 344 344	0	0
	6	В	13	Total O 13 13	0	0

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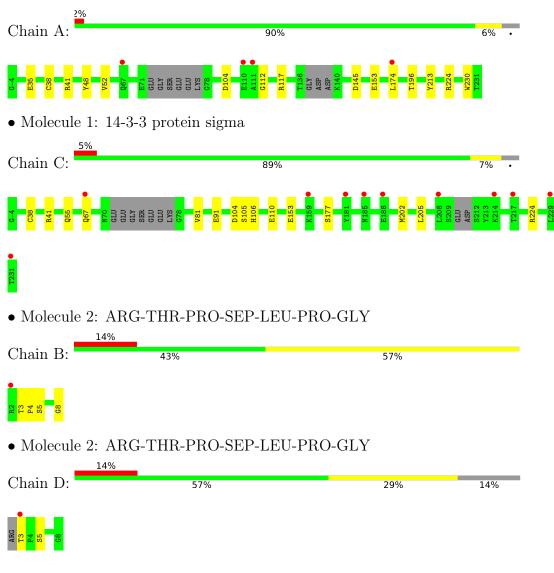
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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	С	299	Total O 299 299	0	0
6	D	14	Total O 14 14	0	0



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 sigma



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants	62.88Å 70.24Å 128.46Å	Depositor
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	47.40 - 1.45	Depositor
Resolution (A)	47.40 - 1.45	EDS
% Data completeness	$100.0 \ (47.40-1.45)$	Depositor
(in resolution range)	$100.0 \ (47.40-1.45)$	EDS
R _{merge}	0.08	Depositor
R _{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$2.04 (at 1.45 \text{\AA})$	Xtriage
Refinement program	PHENIX	Depositor
D D.	0.151 , 0.178	Depositor
R, R_{free}	0.151 , 0.178	DCC
R_{free} test set	4989 reflections (4.92%)	wwPDB-VP
Wilson B-factor $(Å^2)$	16.0	Xtriage
Anisotropy	0.214	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.40 , 45.4	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	0.97	EDS
Total number of atoms	8829	wwPDB-VP
Average B, all atoms $(Å^2)$	25.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 5.93% 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: CL, NA, D4K, 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		
	Unam	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	А	0.38	0/2133	0.56	0/2859	
1	С	0.33	0/2013	0.54	0/2701	
2	В	0.40	0/44	0.72	0/58	
2	D	0.33	0/33	0.73	0/44	
All	All	0.36	0/4223	0.55	0/5662	

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	2011	2064	2013	13	1
1	С	1918	1936	1892	12	1
2	В	54	50	50	4	0
2	D	43	37	37	1	0
3	А	1	0	0	0	0
3	С	1	0	0	0	0
4	А	4	0	0	0	0
5	В	20	0	0	2	0
5	D	20	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	А	344	0	0	9	8
6	В	13	0	0	1	0
6	С	299	0	0	5	6
6	D	14	0	0	0	0
All	All	4742	4087	3992	28	10

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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 3.

All (28) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic $(\overset{\bullet}{\lambda})$	Clash
		distance $(Å)$	overlap (Å)
1:A:145[B]:ASP:OD1	6:A:401:HOH:O	1.82	0.98
1:A:35[B]:GLU:OE1	6:A:402:HOH:O	1.97	0.83
1:C:153[B]:GLU:OE2	6:C:401:HOH:O	2.00	0.78
1:C:110[C]:GLU:OE1	6:C:402:HOH:O	2.07	0.73
1:C:104[B]:ASP:OD2	6:C:403:HOH:O	2.09	0.69
1:A:104[B]:ASP:OD2	6:A:403:HOH:O	2.11	0.68
1:A:35[B]:GLU:OE2	6:A:404:HOH:O	2.14	0.64
1:C:81[A]:VAL:HG23	6:C:547:HOH:O	1.99	0.63
1:A:48:TYR:O	1:A:52[B]:VAL:HG22	2.02	0.60
1:C:202[B]:MET:SD	1:C:205:LEU:HD12	2.46	0.56
1:C:38[A]:CYS:SG	1:C:41:ARG:NH2	2.79	0.55
1:A:38[B]:CYS:SG	1:A:41:ARG:NH2	2.81	0.53
1:C:105:SER:HA	1:C:106:HIS:CG	2.47	0.50
1:A:224[B]:ARG:NH1	6:A:422:HOH:O	2.45	0.49
1:A:230:TRP:CZ2	2:B:3:THR:HG21	2.49	0.47
1:A:174[B]:LEU:HD12	6:A:406:HOH:O	2.16	0.45
1:A:35[A]:GLU:OE1	6:A:405:HOH:O	2.20	0.44
1:C:224:ARG:NH1	6:C:425:HOH:O	2.51	0.44
2:B:8:GLY:HA3	5:B:101:D4K:C06	2.48	0.43
1:A:112:GLY:O	1:A:117[B]:ARG:NH1	2.42	0.43
2:B:4:PRO:HA	6:B:209:HOH:O	2.19	0.42
1:C:177[B]:SER:HG	1:C:230:TRP:HH2	1.63	0.42
1:A:196[A]:THR:HG21	6:A:431:HOH:O	2.20	0.41
2:B:8:GLY:HA3	5:B:101:D4K:C07	2.50	0.41
1:A:153[B]:GLU:HG3	6:A:561:HOH:O	2.19	0.41
1:C:55:GLN:NE2	1:C:91[A]:GLU:HG2	2.35	0.41
1:C:230:TRP:CZ2	2:D:3:THR:HG21	2.56	0.40

All (10) symmetry-related close contacts are listed below. The label for Atom-2 includes the



Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A:715:HOH:O	6:C:456:HOH:O[2_554]	1.96	0.24
6:A:589:HOH:O	6:C:598:HOH:O[4_455]	1.98	0.22
6:A:535:HOH:O	6:A:698:HOH:O[4_455]	2.00	0.20
6:A:448:HOH:O	6:A:607:HOH:O[4_545]	2.01	0.19
6:A:455:HOH:O	6:C:440:HOH:O[2_554]	2.03	0.17
6:C:675:HOH:O	6:C:681:HOH:O[3_655]	2.10	0.10
1:A:213:TYR:OH	1:C:110[C]:GLU:OE2[4_445]	2.11	0.09
6:A:472:HOH:O	6:A:710:HOH:O[4_445]	2.15	0.05
6:A:472:HOH:O	6:C:418:HOH:O[1_455]	2.19	0.01
6:A:619:HOH:O	6:C:562:HOH:O[1_455]	2.19	0.01

symmetry operator and encoded unit-cell translations to be applied.

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	А	261/236~(111%)	259~(99%)	2(1%)	0	100	100
1	С	247/236~(105%)	244~(99%)	3~(1%)	0	100	100
2	В	4/7~(57%)	3~(75%)	1 (25%)	0	100	100
2	D	3/7~(43%)	3 (100%)	0	0	100	100
All	All	515/486~(106%)	509~(99%)	6(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	nalysed Rotameric Outliers		Percentiles		
1	А	231/198~(117%)	231~(100%)	0	100 100		
1	С	216/198~(109%)	216 (100%)	0	100 100		
2	В	5/5~(100%)	5 (100%)	0	100 100		
2	D	4/5~(80%)	4 (100%)	0	100 100		
All	All	456/406~(112%)	456 (100%)	0	100 100		

There are no protein residues with a non-rotameric sidechain to report.

Sometimes side chains can be flipped to improve hydrogen bonding and reduce clashes. There are no such side chains 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)

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).

Mol	Type	Chain	Res	Link	B	ond leng	gths	B	Bond ang	gles
IVIOI	туре	Chain	nes	LIIIK	Counts	RMSZ	# Z >2	Counts	RMSZ	# Z >2
2	SEP	В	5	2	8,9,10	1.06	1 (12%)	8,12,14	0.56	0
2	SEP	D	5	2	8,9,10	1.14	1 (12%)	8,12,14	0.90	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	SEP	В	5	2	-	0/5/8/10	-
2	SEP	D	5	2	-	0/5/8/10	-



Mol	Chain	Res	Type	Atoms	Ζ	Observed(Å)	$\mathrm{Ideal}(\mathrm{\AA})$
2	В	5	SEP	P-O1P	2.44	1.58	1.50
2	D	5	SEP	P-01P	2.41	1.58	1.50

All (2) bond length outliers are listed below:

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

Of 8 ligands modelled in this entry, 6 are monoatomic - leaving 2 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).

Mal	Trune	Chain	Chain	Chain	Chain	Chain	Chain	Chain	Chain	Chain	Chain	Chain	Chain	Chain	Dec	Link	Bo	ond leng	ths	B	ond ang	les
	Mol Type Chain	Res	LIIIK	Counts	RMSZ	# Z >2	Counts	RMSZ	# Z > 2													
5	D4K	D	101	2	22,22,22	2.39	5 (22%)	25,29,29	0.96	1 (4%)												
5	D4K	В	101	2	22,22,22	2.30	5 (22%)	25,29,29	1.14	2 (8%)												

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
5	D4K	D	101	2	-	0/14/21/21	0/3/3/3
5	D4K	В	101	2	-	0/14/21/21	0/3/3/3



Mol	Chain	Res	Type	Atoms	Ζ	Observed(Å)	Ideal(Å)
5	D	101	D4K	C15-N16	-6.99	1.33	1.48
5	В	101	D4K	C15-N16	-6.38	1.34	1.48
5	D	101	D4K	C19-C15	5.53	1.62	1.53
5	В	101	D4K	C19-C15	5.46	1.62	1.53
5	D	101	D4K	C18-C19	-4.24	1.34	1.51
5	В	101	D4K	C18-C19	-3.95	1.35	1.51
5	В	101	D4K	C06-C07	2.72	1.43	1.39
5	D	101	D4K	C06-C07	2.37	1.42	1.39
5	D	101	D4K	C17-N16	2.11	1.56	1.49
5	В	101	D4K	C05-C04	2.00	1.43	1.38

All (10) bond length outliers are listed below:

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	1		$Observed(^{o})$	$Ideal(^{o})$
5	В	101	D4K	C19-C15-C08	-3.65	107.31	113.39
5	D	101	D4K	C19-C15-C08	-3.35	107.80	113.39
5	В	101	D4K	C09-C08-C07	-2.15	107.24	111.47

There are no chirality outliers.

There are no torsion outliers.

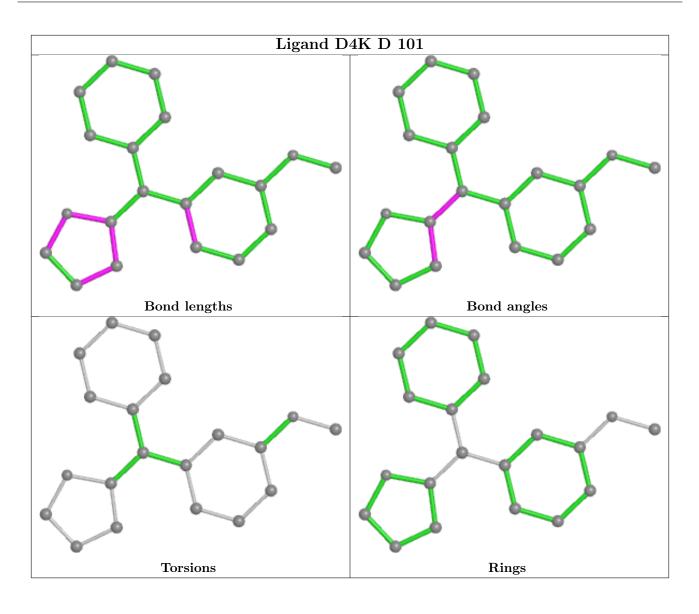
There are no ring outliers.

1 monomer is involved in 2 short contacts:

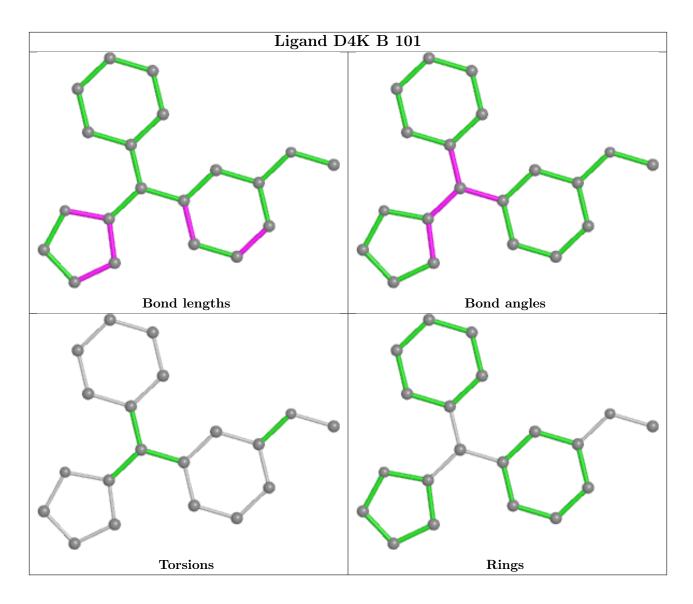
M	ol	Chain	Res	Type	Clashes	Symm-Clashes
5		В	101	D4K	2	0

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>2	$OWAB(Å^2)$	$\mathbf{Q}{<}0.9$
1	А	227/236~(96%)	-0.23	4 (1%) 68 69	11, 17, 40, 73	0
1	С	227/236~(96%)	-0.21	11 (4%) 30 33	14, 20, 45, 69	0
2	В	6/7~(85%)	0.78	1 (16%) 1 2	14, 17, 32, 57	0
2	D	5/7~(71%)	0.70	1 (20%) 1 1	18, 21, 35, 52	0
All	All	465/486~(95%)	-0.20	17 (3%) 41 44	11, 19, 45, 73	0

All (17) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	С	229	LEU	6.8
1	А	111	ALA	5.0
1	А	174[A]	LEU	4.8
2	D	3	THR	4.6
2	В	2	ARG	3.5
1	С	231	THR	3.1
1	С	230	TRP	2.9
1	С	214	LYS	2.6
1	А	67	GLN	2.6
1	С	185	ASN	2.4
1	А	110	GLU	2.4
1	С	208	LEU	2.3
1	С	188	GLU	2.3
1	С	159	LYS	2.2
1	С	181	TYR	2.1
1	С	67	GLN	2.1
1	С	217	THR	2.1



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	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-factors}(\mathrm{\AA}^2)$	Q<0.9
2	SEP	В	5	10/11	0.99	0.08	$13,\!14,\!16,\!17$	0
2	SEP	D	5	10/11	0.99	0.06	14,16,22,22	0

6.3 Carbohydrates (i)

There are no monosaccharides in this entry.

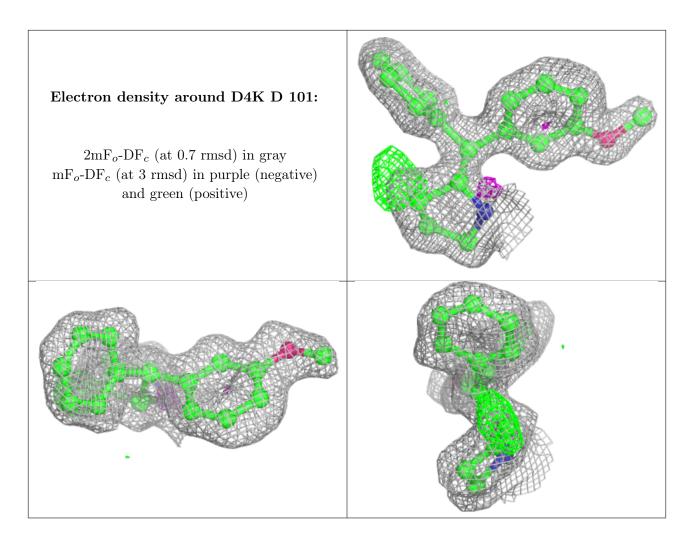
6.4 Ligands (i)

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.

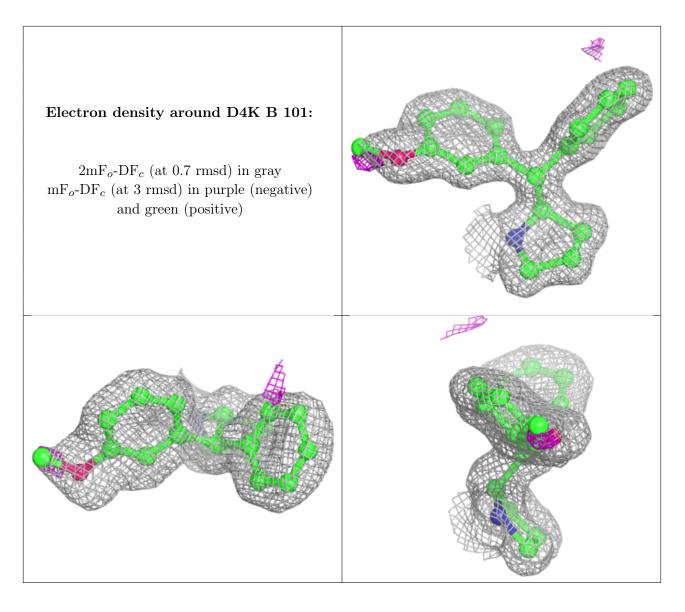
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
5	D4K	D	101	20/20	0.90	0.10	21,27,32,33	0
5	D4K	В	101	20/20	0.94	0.09	16,25,30,32	0
4	NA	А	302	1/1	0.94	0.17	61,61,61,61	0
4	NA	А	304	1/1	0.95	0.09	43,43,43,43	0
4	NA	А	303	1/1	0.97	0.11	32,32,32,32	0
4	NA	А	305	1/1	0.99	0.06	24,24,24,24	1
3	CL	А	301	1/1	1.00	0.08	18,18,18,18	0
3	CL	С	301	1/1	1.00	0.07	19,19,19,19	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.

