

Full wwPDB X-ray Structure Validation Report (i)

Oct 12, 2021 - 06:01 pm BST

PDB ID	:	7NIA
Title	:	Crystal structure of the human METTL3-METTL14 complex with compound
		UOZ059a
Authors	:	Bedi, R.K.; Huang, D.; Caflisch, A.
Deposited on		
Resolution	:	2.30 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 following versions of software and data (see references (1)) were used in the production of this report:

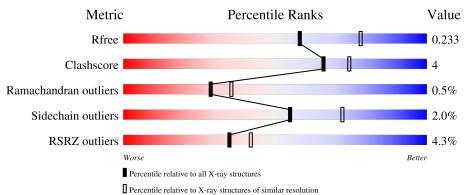
·	:	4.02b-467 1.8.5 (274361), CSD as541be (2020) 1.13
EDS	:	2.23.2
buster-report	:	1.1.7(2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0267
CCP4	:	7.1.010 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.23.2

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 2.30 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	$egin{array}{c} { m Whole \ archive} \ (\#{ m Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries,\ resolution\ range}({ m \AA}))$
R_{free}	130704	5042(2.30-2.30)
Clashscore	141614	5643 (2.30-2.30)
Ramachandran outliers	138981	5575(2.30-2.30)
Sidechain outliers	138945	5575 (2.30-2.30)
RSRZ outliers	127900	4938 (2.30-2.30)

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	246	4% 69%	11%	20%			
2	В	290	^{3%} 74%	9%	• 17%			



2 Entry composition (i)

There are 5 unique types of molecules in this entry. The entry contains 3614 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 N6-adenosine-methyltransferase catalytic subunit.

Mol	Chain	Residues		At	oms			ZeroOcc	AltConf	Trace
1	А	197	Total 1553	C 996	N 271	0 277	S 9	0	0	0

Chain	Residue	Modelled	Actual	Comment	Reference
А	335	MET	-	initiating methionine	UNP Q86U44
A	336	GLY	-	expression tag	UNP Q86U44
А	337	HIS	-	expression tag	UNP Q86U44
А	338	HIS	-	expression tag	UNP Q86U44
А	339	HIS	-	expression tag	UNP Q86U44
А	340	HIS	-	expression tag	UNP Q86U44
А	341	HIS	-	expression tag	UNP Q86U44
А	342	HIS	-	expression tag	UNP Q86U44
А	343	SER	-	expression tag	UNP Q86U44
А	344	SER	-	expression tag	UNP Q86U44
А	345	GLY	-	expression tag	UNP Q86U44
А	346	ARG	-	expression tag	UNP Q86U44
А	347	GLU	-	expression tag	UNP Q86U44
А	348	ASN	-	expression tag	UNP Q86U44
А	349	LEU	-	expression tag	UNP Q86U44
А	350	TYR	-	expression tag	UNP Q86U44
А	351	PHE	-	expression tag	UNP Q86U44
А	352	GLN	-	expression tag	UNP Q86U44
А	353	GLY	-	expression tag	UNP Q86U44

There are 19 discrepancies between the modelled and reference sequences:

• Molecule 2 is a protein called N6-adenosine-methyltransferase non-catalytic subunit.

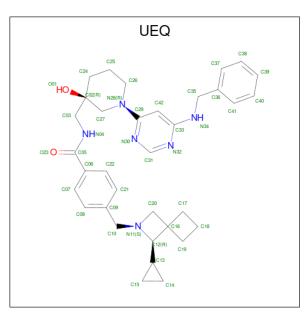
Mol	Chain	Residues		At	oms			ZeroOcc	AltConf	Trace
2	В	242	Total 1865	C 1197	N 316	0 340	S 12	0	0	0



There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
В	106	MET	-	initiating methionine	UNP Q9HCE5

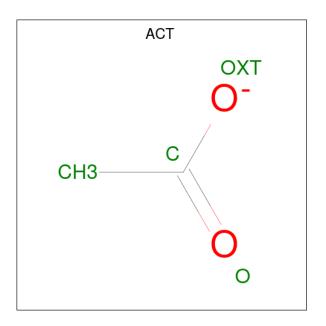
• Molecule 3 is 4-[[(3R)-3-cyclopropyl-2-azaspiro[3.3]heptan-2-yl]methyl]-N-[[(3R)-3-oxidany l-1-[6-[(phenylmethyl)amino]pyrimidin-4-yl]piperidin-3-yl]methyl]benzamide (three-letter code: UEQ) (formula: C₃₄H₄₂N₆O₂).



[Mol	Chain	Residues	A	ton	ns		ZeroOcc	AltConf
	3	А	1	Total 42	C 34	N 6	O 2	0	0

• Molecule 4 is ACETATE ION (three-letter code: ACT) (formula: $C_2H_3O_2$).





Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	В	1	Total 4	$\begin{array}{c} \mathrm{C} \\ \mathrm{2} \end{array}$	O 2	0	0

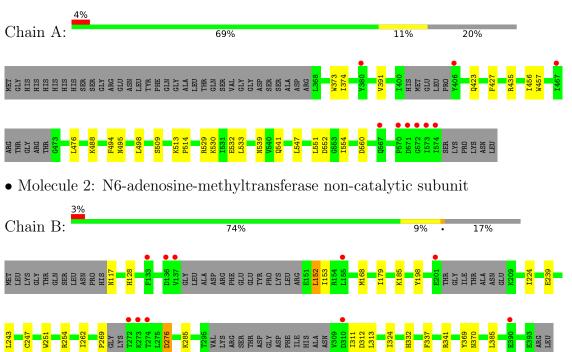
• Molecule 5 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	А	56	$\begin{array}{cc} \text{Total} & \text{O} \\ 56 & 56 \end{array}$	0	0
5	В	94	Total O 94 94	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: N6-adenosine-methyltransferase catalytic subunit



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 32 2 1	Depositor
Cell constants	63.57Å 63.57 Å 224.04 Å	Depositor
a, b, c, α , β , γ	90.00° 90.00° 120.00°	Depositor
Resolution (Å)	44.31 - 2.30	Depositor
Resolution (A)	44.31 - 2.30	EDS
% Data completeness	99.8 (44.31-2.30)	Depositor
(in resolution range)	99.8(44.31-2.30)	EDS
R _{merge}	(Not available)	Depositor
R _{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$1.66 (at 2.29 \text{\AA})$	Xtriage
Refinement program	PHENIX 1.19.1_4122	Depositor
B B.	0.194 , 0.235	Depositor
R, R_{free}	0.191 , 0.233	DCC
R_{free} test set	1207 reflections (5.00%)	wwPDB-VP
Wilson B-factor $(Å^2)$	43.9	Xtriage
Anisotropy	0.095	Xtriage
Bulk solvent $k_{sol}(e/Å^3), B_{sol}(Å^2)$	(Not available), (Not available)	EDS
L-test for twinning ²	$< L > = 0.49, < L^2 > = 0.32$	Xtriage
Estimated twinning fraction	0.038 for -h,-k,l	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	3614	wwPDB-VP
Average B, all atoms $(Å^2)$	45.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 3.49% 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: UEQ, ACT

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		Chain		nd angles
	Chain	RMSZ	# Z > 5	RMSZ	# Z > 5
1	А	0.44	0/1592	0.61	0/2166
2	В	0.45	0/1912	0.64	1/2602~(0.0%)
All	All	0.45	0/3504	0.62	1/4768~(0.0%)

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
2	В	276	ASP	CB-CG-OD1	6.06	123.75	118.30

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	1553	0	1494	13	0
2	В	1865	0	1719	17	0
3	А	42	0	0	0	0
4	В	4	0	3	0	0
5	А	56	0	0	0	0
5	В	94	0	0	3	0
All	All	3614	0	3216	27	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 4.

All (27) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic	Clash
Atom-1	Atom-2	distance (Å)	overlap (Å)
2:B:168:MET:HE3	2:B:369:TYR:HA	1.59	0.85
1:A:374:ILE:HG23	1:A:554:ILE:HD12	1.78	0.66
1:A:373:TRP:HB2	1:A:551:LEU:HD13	1.79	0.64
1:A:391:VAL:HB	1:A:530:LYS:HG2	1.79	0.64
1:A:456:ILE:HD11	2:B:262:ILE:HD11	1.80	0.63
2:B:117:ASN:N	5:B:503:HOH:O	2.35	0.59
2:B:198:TYR:HB3	2:B:324:ILE:HG22	1.86	0.57
1:A:513:LYS:NZ	1:A:532:GLU:OE2	2.39	0.55
1:A:495:ASN:HB3	1:A:498:LEU:HD23	1.89	0.55
2:B:341:ARG:HD2	2:B:385:LEU:HB2	1.91	0.52
2:B:262:ILE:HD12	2:B:313:LEU:HD22	1.91	0.52
1:A:533:LEU:HD22	1:A:547:LEU:HD12	1.91	0.52
2:B:332:HIS:HE1	5:B:569:HOH:O	1.94	0.49
2:B:168:MET:HE1	2:B:370:ASN:H	1.78	0.49
2:B:128:HIS:NE2	2:B:269:PRO:HG3	2.28	0.48
1:A:423:GLN:O	1:A:488:LYS:HE2	2.14	0.46
2:B:185:LYS:NZ	5:B:501:HOH:O	2.23	0.46
2:B:311:ILE:HG13	2:B:312:ASP:H	1.82	0.45
1:A:539:ASN:O	1:A:541:GLN:HG2	2.17	0.45
1:A:457:TRP:CE3	1:A:514:PRO:HD3	2.52	0.44
1:A:427:PHE:HE2	1:A:494:PHE:CD2	2.35	0.44
2:B:179:ILE:HG12	2:B:224:ILE:HD13	1.99	0.43
1:A:476:LEU:HG	2:B:337:PHE:HZ	1.84	0.43
2:B:247:CYS:HB3	2:B:251:TRP:CH2	2.54	0.43
2:B:152:LEU:HD12	2:B:152:LEU:HA	1.92	0.42
2:B:239:GLU:HG3	2:B:243:LEU:HD12	2.01	0.42
1:A:456:ILE:HG23	2:B:285:LYS:HE2	2.03	0.40

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.



Mol	Chain	Analysed	Favoured	Allowed	Outliers	Perce	ntiles
1	А	191/246~(78%)	185~(97%)	6 (3%)	0	100	100
2	В	232/290~(80%)	224 (97%)	6 (3%)	2(1%)	17	20
All	All	423/536 (79%)	409 (97%)	12 (3%)	2(0%)	29	35

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

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	В	152	LEU
2	В	153	ILE

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	А	163/215~(76%)	158 (97%)	5(3%)	40 55
2	В	187/259~(72%)	185 (99%)	2(1%)	73 86
All	All	350/474~(74%)	343~(98%)	7(2%)	55 72

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

Mol	Chain	Res	Type
1	А	435	ARG
1	А	509	SER
1	А	529	ARG
1	А	552	ASP
1	А	560	ASP
2	В	254	ARG
2	В	276	ASP

Sometimes side chains can be flipped to improve hydrogen bonding and reduce clashes. All (4) such side chains are listed below:



Mol	Chain	Res	Type
1	А	538	HIS
1	А	550	GLN
2	В	282	GLN
2	В	332	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)

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	Turne	Chain	Dec	Tinle	В	ond leng	gths	B	ond ang	gles
NIOI	Type	Chain	Res	Link	Counts	RMSZ	# Z >2	Counts	RMSZ	# Z >2
3	UEQ	А	601	-	43,48,48	<mark>6.50</mark>	29 (67%)	53,70,70	2.40	18 (33%)
4	ACT	В	401	-	$1,\!3,\!3$	7.22	1 (100%)	0,3,3	-	-

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	UEQ	А	601	-	-	7/23/64/64	0/7/7/7



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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	А	601	UEQ	C10-N11	-20.79	1.12	1.47
3	А	601	UEQ	C20-C16	-10.32	1.44	1.54
3	А	601	UEQ	C07-C06	9.35	1.55	1.39
3	А	601	UEQ	C08-C07	9.32	1.55	1.38
3	А	601	UEQ	C27-N28	9.09	1.54	1.46
3	А	601	UEQ	C31-N32	8.43	1.49	1.33
3	А	601	UEQ	C33-N34	8.22	1.48	1.36
3	А	601	UEQ	C31-N30	7.84	1.48	1.33
3	А	601	UEQ	C22-C06	7.80	1.52	1.39
3	А	601	UEQ	C22-C21	7.63	1.52	1.38
3	А	601	UEQ	C08-C09	7.30	1.54	1.38
3	А	601	UEQ	C37-C36	7.26	1.54	1.38
3	А	601	UEQ	C24-C02	-7.25	1.45	1.52
4	В	401	ACT	CH3-C	7.22	1.57	1.48
3	А	601	UEQ	C21-C09	7.19	1.54	1.38
3	А	601	UEQ	C42-C29	7.13	1.50	1.39
3	А	601	UEQ	C40-C41	7.06	1.53	1.38
3	А	601	UEQ	C38-C37	7.04	1.53	1.38
3	А	601	UEQ	C41-C36	6.98	1.53	1.38
3	А	601	UEQ	C33-N32	6.73	1.47	1.34
3	А	601	UEQ	C05-N04	6.39	1.47	1.33
3	А	601	UEQ	C39-C38	6.05	1.54	1.38
3	А	601	UEQ	C40-C39	6.05	1.54	1.38
3	А	601	UEQ	C29-N30	6.00	1.46	1.34
3	А	601	UEQ	C29-N28	5.03	1.47	1.37
3	А	601	UEQ	C26-N28	4.13	1.53	1.46
3	А	601	UEQ	C42-C33	3.92	1.49	1.39
3	А	601	UEQ	C10-C09	3.12	1.57	1.51
3	А	601	UEQ	C35-C36	2.20	1.56	1.51
3	А	601	UEQ	C24-C25	-2.18	1.47	1.52

All (30) bond length outliers are listed below:

All (18) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
3	А	601	UEQ	C09-C10-N11	-7.13	101.08	112.75
3	А	601	UEQ	N32-C31-N30	-6.44	118.53	128.60
3	А	601	UEQ	C31-N30-C29	6.26	120.41	114.94
3	А	601	UEQ	C14-C13-C12	4.79	129.15	119.22
3	А	601	UEQ	C15-C13-C12	4.50	128.54	119.22
3	А	601	UEQ	C42-C29-N28	-3.94	117.61	122.29
3	А	601	UEQ	C21-C22-C06	-3.58	116.62	120.78
3	А	601	UEQ	C10-C09-C08	2.93	126.27	120.77

Continued on next page...

Conti	Continued from previous page									
Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$			
3	А	601	UEQ	C10-C09-C21	-2.91	115.30	120.77			
3	А	601	UEQ	N30-C29-N28	2.86	121.07	116.79			
3	А	601	UEQ	C03-N04-C05	-2.75	118.35	122.89			
3	А	601	UEQ	C22-C06-C05	-2.57	112.30	120.62			
3	А	601	UEQ	C07-C06-C22	2.47	122.11	118.59			
3	А	601	UEQ	C26-N28-C27	-2.46	109.63	114.00			
3	А	601	UEQ	N34-C33-N32	2.31	120.44	116.95			
3	А	601	UEQ	C22-C21-C09	2.25	124.11	121.03			
3	А	601	UEQ	C24-C02-C27	2.21	112.30	109.78			
3	А	601	UEQ	C25-C24-C02	2.05	115.70	112.96			

There are no chirality outliers.

All (7) torsion outliers are listed below:

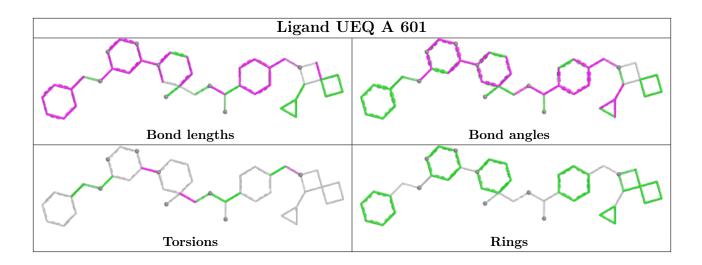
Mol	Chain	Res	Type	Atoms
3	А	601	UEQ	C09-C10-N11-C20
3	А	601	UEQ	C09-C10-N11-C12
3	А	601	UEQ	C24-C02-C03-N04
3	А	601	UEQ	C27-C02-C03-N04
3	А	601	UEQ	O01-C02-C03-N04
3	А	601	UEQ	N30-C29-N28-C26
3	А	601	UEQ	C42-C29-N28-C26

There are no ring outliers.

No monomer is involved in short contacts.

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	$\langle RSRZ \rangle$	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	А	197/246~(80%)	0.06	9 (4%) 32 39	30, 46, 70, 78	0
2	В	242/290~(83%)	0.06	10 (4%) 37 44	28, 41, 74, 91	0
All	All	439/536~(81%)	0.06	19 (4%) 35 42	28, 43, 72, 91	0

All (19) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	В	272	THR	7.6
1	А	574	ILE	5.6
2	В	137	VAL	4.8
1	А	573	ILE	4.2
2	В	201	GLU	4.1
2	В	273	LYS	3.6
1	А	570	PRO	3.4
2	В	274	THR	3.3
1	А	380	TYR	3.2
2	В	136	ASP	3.0
1	А	571	ASP	2.9
1	А	406	TYR	2.6
2	В	133	PHE	2.4
2	В	155	LEU	2.3
1	А	572	GLY	2.3
2	В	390	GLU	2.2
1	А	467	ILE	2.2
2	В	310	ASP	2.2
1	А	567	GLN	2.2

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)

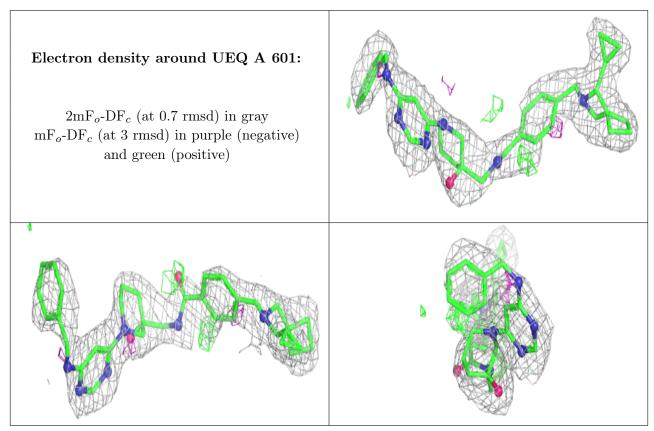
There are no monosaccharides in this entry.

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	B-factors(Å ²)	Q < 0.9
3	UEQ	А	601	42/42	0.83	0.22	40,56,67,73	0
4	ACT	В	401	4/4	0.97	0.13	31,34,38,39	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.

