

Full wwPDB X-ray Structure Validation Report (i)

Sep 6, 2023 – 01:55 AM EDT

PDB ID	:	4EKY
Title	:	Crystal structure of GPb in complex with DK15
Authors	:	Kantsadi, A.L.; Skamnaki, V.T.; Leonidas, D.D.
Deposited on		
Resolution	:	2.45 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:

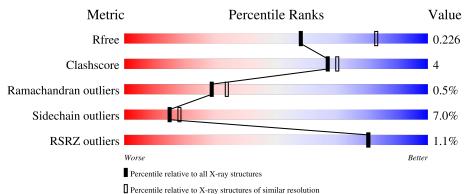
Xtriage (Phenix) EDS buster-report	: : :	4.02b-467 1.8.5 (274361), CSD as541be (2020) 1.13 2.35 1.1.7 (2018) 20191225.v01 (using entries in the PDB archive December 25th 2019)
	: :	0

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 2.45 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	$egin{array}{c} { m Whole \ archive} \ (\#{ m Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries,\ resolution\ range}({ m \AA}))$
R_{free}	130704	$1544 \ (2.48-2.44)$
Clashscore	141614	1613(2.48-2.44)
Ramachandran outliers	138981	1598 (2.48-2.44)
Sidechain outliers	138945	1598 (2.48-2.44)
RSRZ outliers	127900	1523 (2.48-2.44)

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	825	% 	10%	•••



4EKY

2 Entry composition (i)

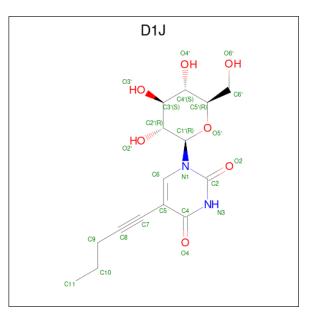
There are 3 unique types of molecules in this entry. The entry contains 6785 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 Glycogen phosphorylase, muscle form.

Mol	Chain	Residues		Atoms				ZeroOcc	AltConf	Trace	
1	А	810	Total 6612	C 4214	N 1163	O 1204	Р 1	S 30	0	2	0

• Molecule 2 is 1-(beta-D-glucopyranosyl)-5-(pent-1-yn-1-yl)pyrimidine-2,4(1H,3H)-dione (three-letter code: D1J) (formula: C₁₅H₂₀N₂O₇).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	А	1	Total 24	C 15		0 7	0	0

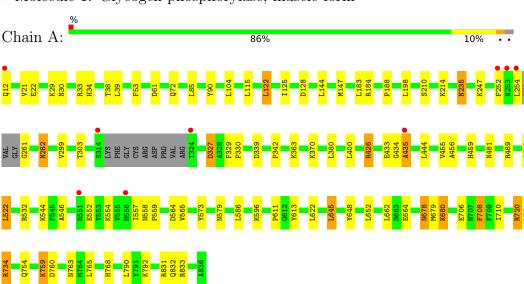
• Molecule 3 is water.

Mo	l	Chain	Residues	Atoms	ZeroOcc	AltConf
3		А	149	Total O 149 149	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: Glycogen phosphorylase, muscle form



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 43 21 2	Depositor
Cell constants	128.67Å 128.67Å 116.56Å	Depositor
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	13.57 - 2.45	Depositor
Resolution (A)	13.57 - 2.45	EDS
% Data completeness	92.4(13.57-2.45)	Depositor
(in resolution range)	92.4(13.57-2.45)	EDS
R _{merge}	(Not available)	Depositor
R _{sym}	0.11	Depositor
$< I/\sigma(I) > 1$	$2.30 (at 2.44 \text{\AA})$	Xtriage
Refinement program	REFMAC	Depositor
D D.	0.161 , 0.230	Depositor
R, R_{free}	0.157 , 0.226	DCC
R_{free} test set	1700 reflections (5.07%)	wwPDB-VP
Wilson B-factor $(Å^2)$	27.1	Xtriage
Anisotropy	0.099	Xtriage
Bulk solvent $k_{sol}(e/Å^3), B_{sol}(Å^2)$	0.33 , 37.7	EDS
L-test for twinning ²	$ < L >=0.51, < L^2>=0.35$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	6785	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 2.84% 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: D1J, LLP

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).

	1.1	Chain	Bond	lengths	Bond angles		
11.	Mol Chain	RMSZ	# Z > 5	RMSZ	# Z > 5		
	1	А	0.89	0/6743	0.87	3/9125~(0.0%)	

There are no bond length outliers.

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^{o})$	$Ideal(^{o})$
1	А	282	ASN	CB-CA-C	-5.67	99.07	110.40
1	А	299	VAL	CG1-CB-CG2	-5.40	102.26	110.90
1	А	645	LEU	CA-CB-CG	5.03	126.86	115.30

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	6612	0	6543	52	0
2	А	24	0	20	1	0
3	А	149	0	0	3	0
All	All	6785	0	6563	52	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.



A 4 1	A + 9	Interatomic	Clash	
Atom-1	Atom-2	distance (\AA)	overlap (Å)	
1:A:261:GLY:HA3	3:A:1145:HOH:O	1.33	1.27	
1:A:720:ARG:CG	1:A:720:ARG:HH21	1.96	0.78	
1:A:455:VAL:H	1:A:459:HIS:HD2	1.32	0.78	
1:A:282:ASN:ND2	3:A:1125:HOH:O	2.21	0.72	
1:A:730:GLU:O	1:A:734:ARG:HG2	1.90	0.72	
1:A:678:ASN:HD22	1:A:679:MET:H	1.39	0.69	
1:A:720:ARG:HH21	1:A:720:ARG:HG2	1.63	0.62	
1:A:678:ASN:ND2	1:A:679:MET:H	1.98	0.60	
1:A:329:PHE:HB3	1:A:330:PRO:HD3	1.83	0.59	
1:A:235:ASN:H	1:A:235:ASN:HD22	1.49	0.58	
1:A:144:LEU:HA	1:A:147:MET:HE2	1.83	0.58	
1:A:678:ASN:HD22	1:A:678:ASN:N	2.01	0.57	
1:A:339:ASP:CG	2:A:901:D1J:H110	2.25	0.57	
1:A:532:ARG:HG2	1:A:532:ARG:HH21	1.70	0.57	
1:A:34:HIS:HD2	1:A:38:THR:OG1	1.88	0.56	
1:A:426:ARG:HH21	1:A:426:ARG:CG	2.20	0.55	
1:A:144:LEU:HD23	1:A:147:MET:HE1	1.89	0.54	
1:A:680:LLP:O3	1:A:680:LLP:NZ	2.41	0.52	
1:A:648:TYR:HA	1:A:652:LEU:HD23	1.92	0.50	
1:A:144:LEU:HD23	1:A:147:MET:CE	2.42	0.50	
1:A:456:ALA:C	1:A:481:ASN:HD21	2.16	0.49	
1:A:759:LYS:O	1:A:763:ASN:HB2	2.12	0.49	
1:A:708:PHE:HB3	1:A:710:ILE:HD11	1.95	0.49	
1:A:678:ASN:ND2	1:A:678:ASN:N	2.60	0.48	
1:A:720:ARG:HH21	1:A:720:ARG:HG3	1.74	0.48	
1:A:144:LEU:HA	1:A:147:MET:CE	2.44	0.48	
1:A:546:ALA:HA	1:A:557:ILE:HD11	1.96	0.47	
1:A:30:ASN:ND2	1:A:33:ARG:HH21	2.12	0.47	
1:A:34:HIS:HE1	1:A:61:ASP:OD1	1.97	0.47	
1:A:759:LYS:HE3	1:A:760:ASP:OD1	2.15	0.46	
1:A:519:ARG:O	1:A:522:LEU:HB2	2.16	0.46	
1:A:720:ARG:HG3	1:A:720:ARG:NH2	2.32	0.44	
1:A:564:ASP:OD2	1:A:664:GLU:OE1	2.35	0.44	
1:A:426:ARG:HH21	1:A:426:ARG:HG2	1.82	0.43	
1:A:678:ASN:HD22	1:A:679:MET:N	2.13	0.43	
1:A:434:GLY:O	1:A:435:ALA:C	2.57	0.43	
1:A:53:PHE:HE2	1:A:188:PRO:HD3	1.84	0.43	
1:A:85:LEU:HD11	1:A:303:THR:HG21	2.01	0.43	
1:A:122:LEU:HA	1:A:125:ILE:HD12	2.01	0.42	
1:A:720:ARG:CG	1:A:720:ARG:NH2	2.64	0.42	

All (52) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:30:ASN:HD22	1:A:33:ARG:HE	1.67	0.42
1:A:261:GLY:CA	3:A:1145:HOH:O	2.19	0.41
1:A:558:ASN:HA	1:A:559:PRO:HD3	1.92	0.41
1:A:710:ILE:H	1:A:710:ILE:HD12	1.86	0.41
1:A:39:LEU:HD11	1:A:53:PHE:HB2	2.02	0.41
1:A:455:VAL:N	1:A:459:HIS:HD2	2.10	0.41
1:A:327:ASP:OD2	1:A:363:LYS:HE2	2.21	0.41
1:A:678:ASN:ND2	1:A:678:ASN:H	2.19	0.41
1:A:380:LEU:HD11	1:A:573:TYR:CD2	2.56	0.41
1:A:183:LEU:O	1:A:184:ARG:C	2.59	0.40
1:A:30:ASN:HD22	1:A:33:ARG:HH21	1.68	0.40
1:A:252:PHE:C	1:A:254:LEU:H	2.25	0.40

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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	А	805/825~(98%)	779~(97%)	22 (3%)	4 (0%)	29 34

All (4) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	А	21	VAL
1	А	435	ALA
1	А	554	LYS
1	А	342	PRO





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 side chain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed Rotameric		Outliers	Percentiles	
1	А	702/713~(98%)	653~(93%)	49 (7%)	15 18	

All (49) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	А	12	GLN
1	А	22	GLU
1	A A A	29	LYS
1	А	72	GLN
1	А	90	TYR
1	A A A	104	LEU
1	А	115	LEU
1	A A A	122	LEU
1	А	128	ASP
1	А	198	LEU
1	А	210	SER
1	А	214	LYS
1	А	235	ASN
1	А	247	LYS
1	А	327	ASP
1	А	370	LYS
1	А	400	LEU
1	А	426	ARG
1	А	433	GLU
1	А	444	LEU
1	А	489	ARG
1	А	513	SER
1	A A	522	LEU
1	А	544	LYS
1	А	552	GLU
1	A A A A	565	VAL
1	А	579	ASN
1	А	586	LEU
1	А	596	LYS
1	А	611	PRO

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\mathbf{Mol}	Chain	Res	Type
1	А	613	TYR
1	А	622	LEU
1	А	645	LEU
1	А	662	LEU
1	А	678	ASN
1	А	706	GLU
1	А	708	PHE
1	А	720	ARG
1	А	721	LEU
1	А	734	ARG
1	А	754	GLN
1	А	759	LYS
1	А	765	LEU
1	А	768	HIS
1	А	790	LEU
1	А	792	LYS
1	А	831	ARG
1	А	832	GLN
1	А	833	ARG

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Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (11) such sidechains are listed below:

Mol	Chain	Res	Type
1	А	30	ASN
1	А	34	HIS
1	А	235	ASN
1	А	450	HIS
1	А	459	HIS
1	А	481	ASN
1	А	484	ASN
1	А	566	GLN
1	А	579	ASN
1	А	614	HIS
1	А	678	ASN

5.3.3 RNA (i)

There are no RNA molecules in this entry.



5.4 Non-standard residues in protein, DNA, RNA chains (i)

1 non-standard protein/DNA/RNA residue is 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	Bo	ond leng	\mathbf{ths}	В	ond ang	les
IVIOI	Type	Ullalli	nes	LIIIK	Counts	RMSZ	# Z >2	Counts	RMSZ	# Z >2
1	LLP	А	680	1	$23,\!24,\!25$	1.46	2 (8%)	$25,\!32,\!34$	1.90	8 (32%)

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
1	LLP	А	680	1	-	2/16/17/19	0/1/1/1

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	А	680	LLP	O3-C3	-4.78	1.25	1.37
1	А	680	LLP	C4-C4'	2.09	1.50	1.46

All (8) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^{o})$	$Ideal(^{o})$
1	А	680	LLP	C4-C3-C2	-3.72	117.88	120.19
1	А	680	LLP	CE-NZ-C4'	-3.26	108.89	118.90
1	А	680	LLP	C4-C4'-NZ	-3.05	110.29	124.31
1	А	680	LLP	C5-C6-N1	-2.90	119.00	123.82
1	А	680	LLP	OP4-P-OP1	-2.76	98.73	106.47
1	А	680	LLP	C3-C4-C5	2.59	120.25	118.26
1	А	680	LLP	CD-CE-NZ	-2.43	104.97	110.93
1	А	680	LLP	C2'-C2-C3	2.17	123.56	120.89

There are no chirality outliers.

All (2) torsion outliers are listed below:



Mol	Chain	Res	Type	Atoms
1	А	680	LLP	C6-C5-C5'-OP4
1	А	680	LLP	C4-C5-C5'-OP4

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	А	680	LLP	1	0

5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

1 ligand is 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	Туре	Chain	Res	Link	B	Bond lengths			Bond angles		
				LIIIK	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2	
2	D1J	А	901	-	$25,\!25,\!25$	<mark>3.96</mark>	10 (40%)	32,35,35	4.32	8 (25%)	

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	D1J	А	901	-	-	1/9/31/31	0/2/2/2

All (10) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	А	901	D1J	C7-C8	16.23	1.33	1.19
2	А	901	D1J	C7-C5	-5.41	1.32	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	$\mathrm{Ideal}(\mathrm{\AA})$
2	А	901	D1J	C2'-C1'	4.43	1.58	1.52
2	А	901	D1J	C2-N1	3.93	1.44	1.38
2	А	901	D1J	C2-N3	3.62	1.44	1.38
2	А	901	D1J	C6-N1	3.23	1.43	1.38
2	А	901	D1J	C9-C8	-3.18	1.39	1.47
2	А	901	D1J	C4'-C5'	2.55	1.58	1.53
2	А	901	D1J	C3'-C2'	2.50	1.58	1.52
2	А	901	D1J	C4-N3	2.01	1.42	1.38

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All (8) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
2	А	901	D1J	C9-C8-C7	-22.02	124.19	176.00
2	А	901	D1J	C4-N3-C2	-5.29	120.50	127.35
2	А	901	D1J	C5-C4-N3	5.20	120.55	114.13
2	А	901	D1J	O4-C4-C5	-3.26	120.76	125.11
2	А	901	D1J	C6-C5-C7	-2.87	118.21	122.30
2	А	901	D1J	N3-C2-N1	2.60	118.33	114.89
2	А	901	D1J	C7-C5-C4	2.17	121.96	118.81
2	А	901	D1J	C5'-O5'-C1'	-2.10	108.59	112.45

There are no chirality outliers.

All (1) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	А	901	D1J	C5-C7-C8-C9

There are no ring outliers.

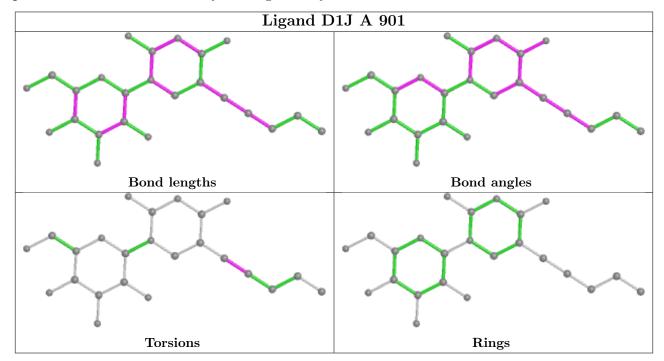
1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	А	901	D1J	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	$\langle RSRZ \rangle$	#RSRZ>2	$OWAB(Å^2)$	Q<0.9
1	А	809/825~(98%)	-0.80	9 (1%) 80 80	11, 23, 48, 75	0

All (9) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	А	253	ASN	6.6
1	А	324	THR	5.6
1	А	252	PHE	5.4
1	А	314	SER	3.7
1	А	254	LEU	3.5
1	А	551	ARG	3.2
1	А	435	ALA	2.4
1	А	12	GLN	2.3
1	A	556	HIS	2.3

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	$\mathbf{B} ext{-factors}(\mathbf{A}^2)$	Q < 0.9
1	LLP	А	680	24/25	0.99	0.07	$9,\!16,\!17,\!17$	0

6.3 Carbohydrates (i)

There are no monosaccharides in this entry.

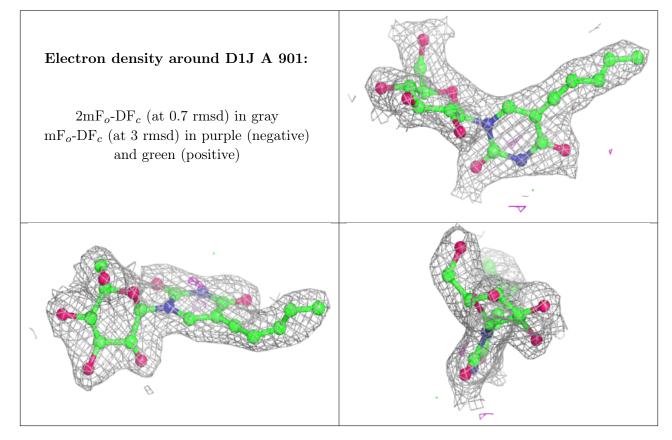


6.4 Ligands (i)

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	$\mathbf{B} ext{-factors}(\mathrm{\AA}^2)$	Q<0.9
2	D1J	А	901	24/24	0.97	0.10	$13,\!25,\!31,\!32$	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.

