



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 7, 2026 – 03:18 AM UTC

PDB ID : 2PL3 / pdb_00002pl3
Title : Human DEAD-box RNA helicase DDX10, DEAD domain in complex with ADP
Authors : Karlberg, T.; Lehtio, L.; Arrowsmith, C.H.; Berglund, H.; Busam, R.D.; Collins, R.; Dahlgren, L.G.; Edwards, A.; Flodin, S.; Flores, A.; Graslund, S.; Hallberg, B.M.; Hammarstrom, M.; Johansson, I.; Kallas, A.; Kotenyova, T.; Moche, M.; Nordlund, P.; Nyman, T.; Persson, C.; Sagemark, J.; Stenmark, P.; Sundstrom, M.; Thorsell, A.G.; Van Den Berg, S.; Weigelt, J.; Holmberg-Schiavone, L.; Structural Genomics Consortium (SGC)
Deposited on : 2007-04-19
Resolution : 2.15 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 ⓘ 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 ⓘ](#)) were used in the production of this report:

MolProbity : 4-5-2 with Phenix2.0
Mogul : 2022.3.0, CSD as543be (2022)
Xtrriage (Phenix) : 2.0
EDS : 3.0
Buster-report : wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4 : 9.0.010 (Gargrove)

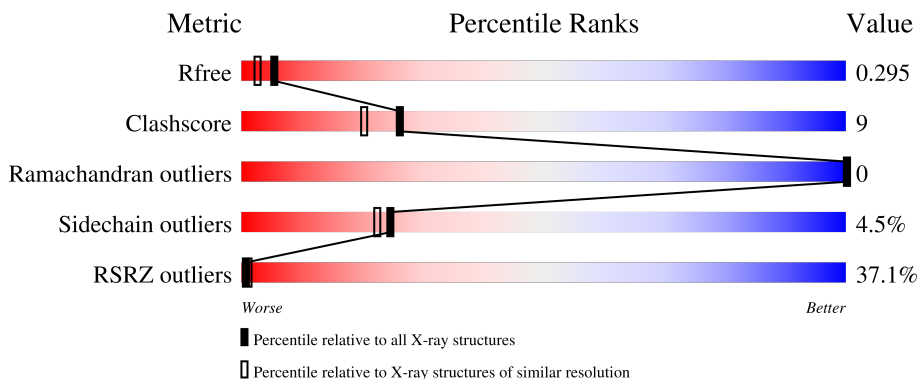
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.15 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 (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	2057 (2.16-2.16)
Clashscore	190562	2159 (2.16-2.16)
Ramachandran outliers	187476	2134 (2.16-2.16)
Sidechain outliers	187428	2133 (2.16-2.16)
RSRZ outliers	180081	2059 (2.16-2.16)

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 $\leq 5\%$. 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	236	

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard

Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

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
4	EOH	A	403	-	-	X	-

2 Entry composition [i](#)

There are 5 unique types of molecules in this entry. The entry contains 1920 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 Probable ATP-dependent RNA helicase DDX10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	232	1814	1152	315	340	7	0	0	0

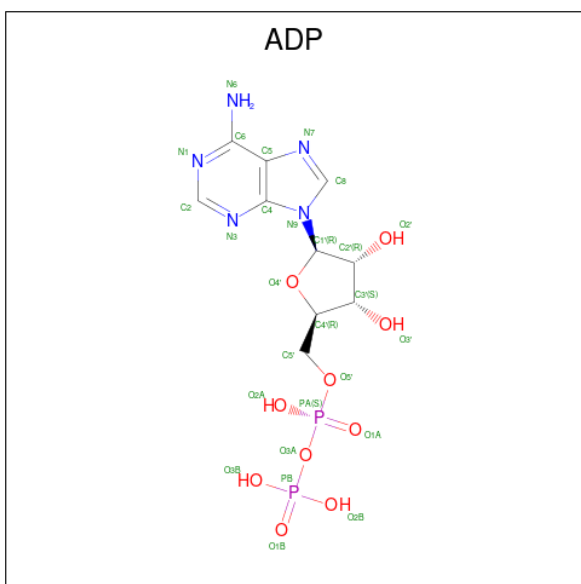
There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	45	SER	-	cloning artifact	UNP Q13206
A	46	MET	-	cloning artifact	UNP Q13206

- Molecule 2 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

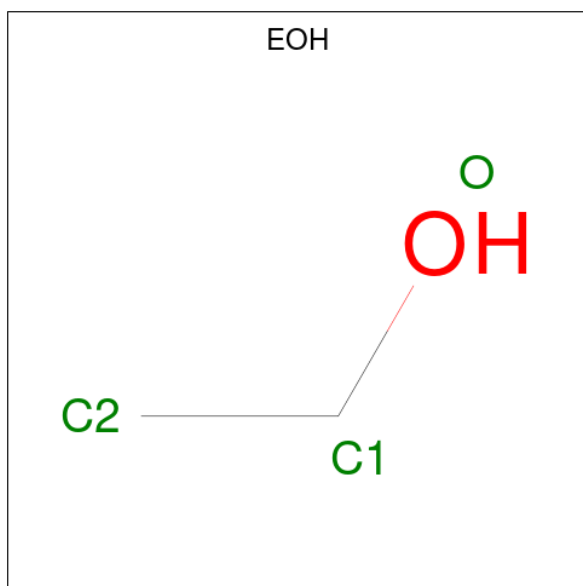
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	1	Total	Mg	0	0
			1	1		

- Molecule 3 is ADENOSINE-5'-DIPHOSPHATE (CCD ID: ADP) (formula: C₁₀H₁₅N₅O₁₀P₂).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	N	O	P		
3	A	1	27	10	5	10	2	0	0

- Molecule 4 is ETHANOL (CCD ID: EOH) (formula: C₂H₆O).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	C	O		
4	A	1	3	2	1	0	0
4	A	1	3	2	1	0	0
4	A	1	3	2	1	0	0
4	A	1	3	2	1	0	0

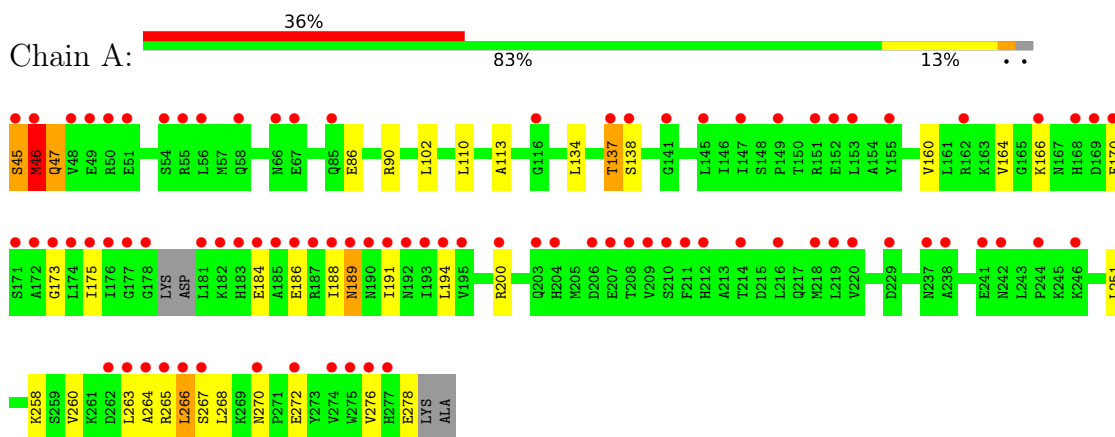
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	O		
5	A	66	66	66	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: Probable ATP-dependent RNA helicase DDX10



4 Data and refinement statistics

Property	Value	Source
Space group	P 61 2 2	Depositor
Cell constants a, b, c, α , β , γ	63.50Å 63.50Å 304.01Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	29.30 – 2.15 29.30 – 2.15	Depositor EDS
% Data completeness (in resolution range)	100.0 (29.30-2.15) 99.7 (29.30-2.15)	Depositor EDS
R_{merge}	0.05	Depositor
R_{sym}	0.02	Depositor
$\langle I/\sigma(I) \rangle$ ¹	18.69 (at 2.16Å)	Xtrriage
Refinement program	REFMAC 5.3.0032	Depositor
R, R_{free}	0.210 , 0.248 (Not available) , 0.295	Depositor DCC
R_{free} test set	1045 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	32.6	Xtrriage
Anisotropy	0.238	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.37 , 56.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.46$, $\langle L^2 \rangle = 0.28$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.91	EDS
Total number of atoms	1920	wwPDB-VP
Average B, all atoms (Å ²)	47.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.10% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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.

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: MG, ADP, EOH

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	
		RMSZ	# $ Z > 5$	RMSZ	# $ Z > 5$
1	A	0.97	0/1840	1.04	3/2486 (0.1%)

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	2

There are no bond length outliers.

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed($^{\circ}$)	Ideal($^{\circ}$)
1	A	47	GLN	N-CA-C	-9.29	101.51	113.12
1	A	270	ASN	CB-CA-C	-5.63	107.20	111.20
1	A	175	ILE	N-CA-C	5.07	115.33	107.28

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	45	SER	Peptide
1	A	46	MET	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	1814	0	1851	35	1
2	A	1	0	0	0	0
3	A	27	0	12	0	0
4	A	12	0	24	3	0
5	A	66	0	0	0	0
All	All	1920	0	1887	35	1

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 9.

All (35) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:266:LEU:HD23	4:A:403:EOH:H22	1.22	1.19
1:A:45:SER:HB3	1:A:46:MET:HB2	1.25	1.16
1:A:45:SER:HB3	1:A:46:MET:CB	1.91	1.00
1:A:45:SER:CB	1:A:46:MET:HB2	1.98	0.93
1:A:266:LEU:HD23	4:A:403:EOH:C2	1.99	0.93
1:A:45:SER:HB3	1:A:46:MET:CA	2.09	0.81
1:A:86:GLU:OE1	1:A:166:LYS:NZ	2.24	0.71
1:A:102:LEU:HD13	1:A:272:GLU:HG3	1.76	0.67
1:A:46:MET:HG3	1:A:47:GLN:N	2.10	0.66
1:A:263:LEU:HD13	4:A:403:EOH:H11	1.78	0.63
1:A:267:SER:OG	1:A:268:LEU:HD13	1.99	0.62
1:A:113:ALA:HB2	1:A:276:VAL:HG22	1.82	0.61
1:A:102:LEU:HD13	1:A:272:GLU:CG	2.30	0.61
1:A:45:SER:HB3	1:A:46:MET:HA	1.83	0.58
1:A:86:GLU:CD	1:A:166:LYS:HZ1	2.11	0.57
1:A:45:SER:CB	1:A:46:MET:CA	2.81	0.56
1:A:86:GLU:CD	1:A:166:LYS:NZ	2.67	0.52
1:A:267:SER:C	1:A:268:LEU:HD12	2.34	0.52
1:A:110:LEU:HD12	1:A:264:ALA:HB2	1.97	0.46
1:A:137:THR:OG1	1:A:138:SER:N	2.49	0.46
1:A:267:SER:OG	1:A:268:LEU:CD1	2.64	0.46
1:A:160:VAL:O	1:A:164:VAL:HG22	2.17	0.45
1:A:110:LEU:HG	1:A:251:LEU:HD22	1.99	0.44
1:A:110:LEU:C	1:A:110:LEU:HD23	2.44	0.43
1:A:189:ASN:ND2	1:A:189:ASN:H	2.17	0.43
1:A:263:LEU:C	1:A:265:ARG:H	2.25	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:188:ILE:HG22	1:A:191:ILE:HD12	2.00	0.43
1:A:46:MET:HE3	1:A:47:GLN:H	1.84	0.42
1:A:263:LEU:C	1:A:265:ARG:N	2.76	0.42
1:A:45:SER:CB	1:A:46:MET:CB	2.73	0.42
1:A:184:GLU:OE1	1:A:200:ARG:NE	2.52	0.42
1:A:173:GLY:HA3	1:A:191:ILE:HD13	2.02	0.42
1:A:188:ILE:HA	1:A:191:ILE:HD12	2.02	0.41
1:A:186:GLU:O	1:A:189:ASN:ND2	2.48	0.41
1:A:102:LEU:HD13	1:A:272:GLU:HG2	2.02	0.41

All (1) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:90:ARG:NH1	1:A:134:LEU:O[8_445]	2.12	0.08

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	A	228/236 (97%)	224 (98%)	4 (2%)	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	Percentiles
1	A	198/206 (96%)	189 (96%)	9 (4%)	24 22

All (9) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	46	MET
1	A	137	THR
1	A	170	PHE
1	A	189	ASN
1	A	194	LEU
1	A	258	LYS
1	A	260	VAL
1	A	266	LEU
1	A	278	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (3) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	58	GLN
1	A	64	ASN
1	A	189	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](#)

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 6 ligands modelled in this entry, 1 is monoatomic - leaving 5 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).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	ADP	A	300	2	28,29,29	1.51	4 (14%)	43,45,45	1.76	8 (18%)
4	EOH	A	400	-	2,2,2	0.39	0	1,1,1	0.27	0
4	EOH	A	402	-	2,2,2	0.42	0	1,1,1	0.12	0
4	EOH	A	403	-	2,2,2	0.67	0	1,1,1	0.38	0
4	EOH	A	401	-	2,2,2	0.51	0	1,1,1	0.15	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
3	ADP	A	300	2	-	3/16/32/32	0/3/3/3

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	300	ADP	C5-C4	4.13	1.46	1.39
3	A	300	ADP	PA-O3A	3.98	1.63	1.59
3	A	300	ADP	C5-C6	2.37	1.47	1.41
3	A	300	ADP	C4-N9	-2.36	1.32	1.37

All (8) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	300	ADP	C5-C4-N3	-4.47	120.56	126.72
3	A	300	ADP	N3-C4-N9	4.39	134.63	127.17
3	A	300	ADP	N3-C2-N1	-4.20	122.23	128.58
3	A	300	ADP	C4-N9-C8	3.58	109.50	105.74
3	A	300	ADP	C2-N3-C4	3.56	120.51	111.83
3	A	300	ADP	O4'-C1'-N9	2.30	112.52	108.09
3	A	300	ADP	C2-N1-C6	2.22	122.37	118.73
3	A	300	ADP	C6-C5-N7	2.16	136.26	132.09

There are no chirality outliers.

All (3) torsion outliers are listed below:

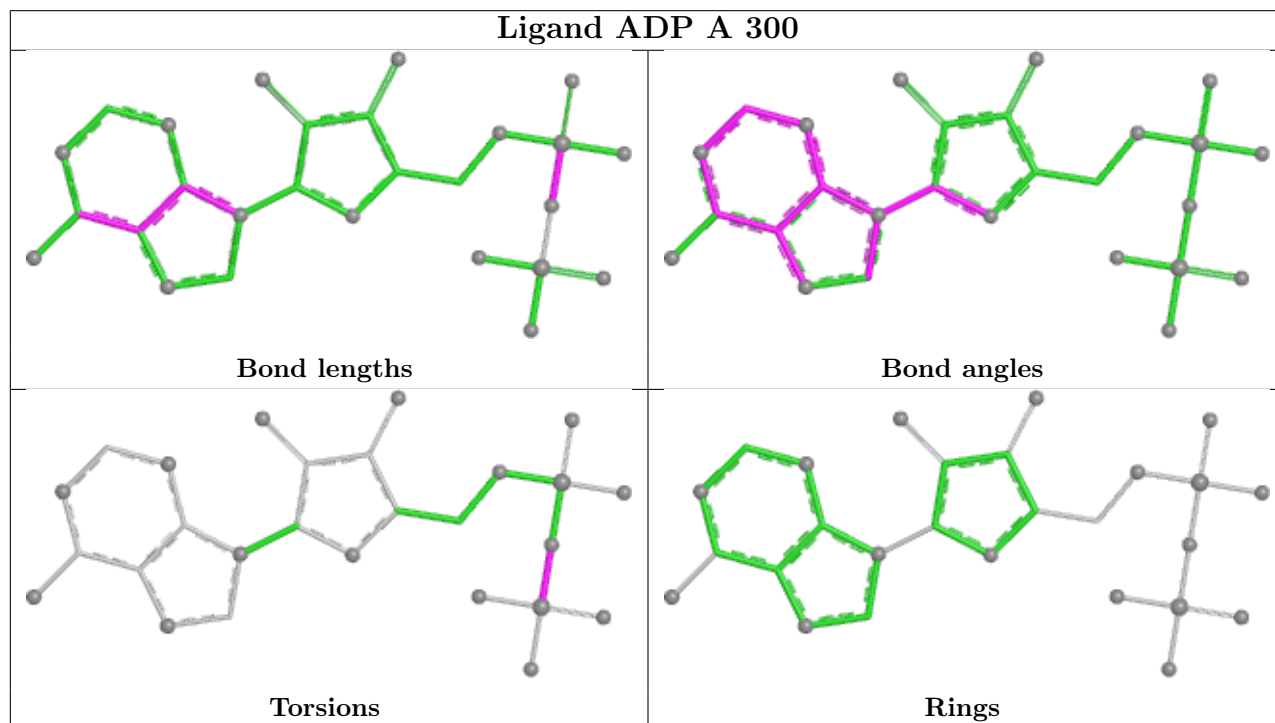
Mol	Chain	Res	Type	Atoms
3	A	300	ADP	PA-O3A-PB-O2B
3	A	300	ADP	PA-O3A-PB-O1B
3	A	300	ADP	PA-O3A-PB-O3B

There are no ring outliers.

1 monomer is involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	A	403	EOH	3	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 than 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

6.1 Protein, DNA and RNA chains

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, 95th 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)	Q<0.9
1	A	232/236 (98%)	1.77	86 (37%) 1 1	35, 46, 64, 80	1 (0%)

All (86) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	181	LEU	6.3
1	A	188	ILE	6.0
1	A	186	GLU	5.9
1	A	45	SER	5.7
1	A	267	SER	5.4
1	A	170	PHE	5.4
1	A	277	HIS	4.9
1	A	266	LEU	4.9
1	A	187	ARG	4.7
1	A	178	GLY	4.5
1	A	182	LYS	4.3
1	A	276	VAL	4.2
1	A	174	LEU	4.1
1	A	168	HIS	4.1
1	A	138	SER	3.9
1	A	246	LYS	3.9
1	A	175	ILE	3.9
1	A	185	ALA	3.9
1	A	177	GLY	3.9
1	A	275	TRP	3.8
1	A	208	THR	3.7
1	A	137	THR	3.7
1	A	264	ALA	3.6
1	A	166	LYS	3.4
1	A	229	ASP	3.4
1	A	169	ASP	3.4
1	A	209	VAL	3.4

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Mol	Chain	Res	Type	RSRZ
1	A	265	ARG	3.3
1	A	171	SER	3.2
1	A	207	GLU	3.2
1	A	176	ILE	3.1
1	A	237	ASN	3.1
1	A	203	GLN	3.1
1	A	190	ASN	3.1
1	A	206	ASP	3.1
1	A	204	HIS	3.0
1	A	147	ILE	3.0
1	A	46	MET	2.9
1	A	116	GLY	2.9
1	A	191	ILE	2.8
1	A	153	LEU	2.8
1	A	274	VAL	2.8
1	A	241	GLU	2.8
1	A	184	GLU	2.7
1	A	183	HIS	2.6
1	A	200	ARG	2.6
1	A	211	PHE	2.6
1	A	162	ARG	2.6
1	A	58	GLN	2.6
1	A	194	LEU	2.6
1	A	54	SER	2.6
1	A	51	GLU	2.6
1	A	212	HIS	2.5
1	A	49	GLU	2.5
1	A	173	GLY	2.5
1	A	145	LEU	2.4
1	A	155	TYR	2.4
1	A	192	ASN	2.4
1	A	67	GLU	2.4
1	A	242	ASN	2.4
1	A	262	ASP	2.3
1	A	195	VAL	2.3
1	A	238	ALA	2.3
1	A	141	GLY	2.3
1	A	218	MET	2.3
1	A	210	SER	2.3
1	A	214	THR	2.3
1	A	172	ALA	2.3
1	A	56	LEU	2.3

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Mol	Chain	Res	Type	RSRZ
1	A	193	ILE	2.2
1	A	152	GLU	2.2
1	A	189	ASN	2.2
1	A	50	ARG	2.2
1	A	149	PRO	2.2
1	A	270	ASN	2.2
1	A	216	LEU	2.1
1	A	219	LEU	2.1
1	A	263	LEU	2.1
1	A	272	GLU	2.1
1	A	151	ARG	2.1
1	A	244	PRO	2.1
1	A	48	VAL	2.1
1	A	220	VAL	2.1
1	A	85	GLN	2.0
1	A	66	ASN	2.0
1	A	55	ARG	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](#)

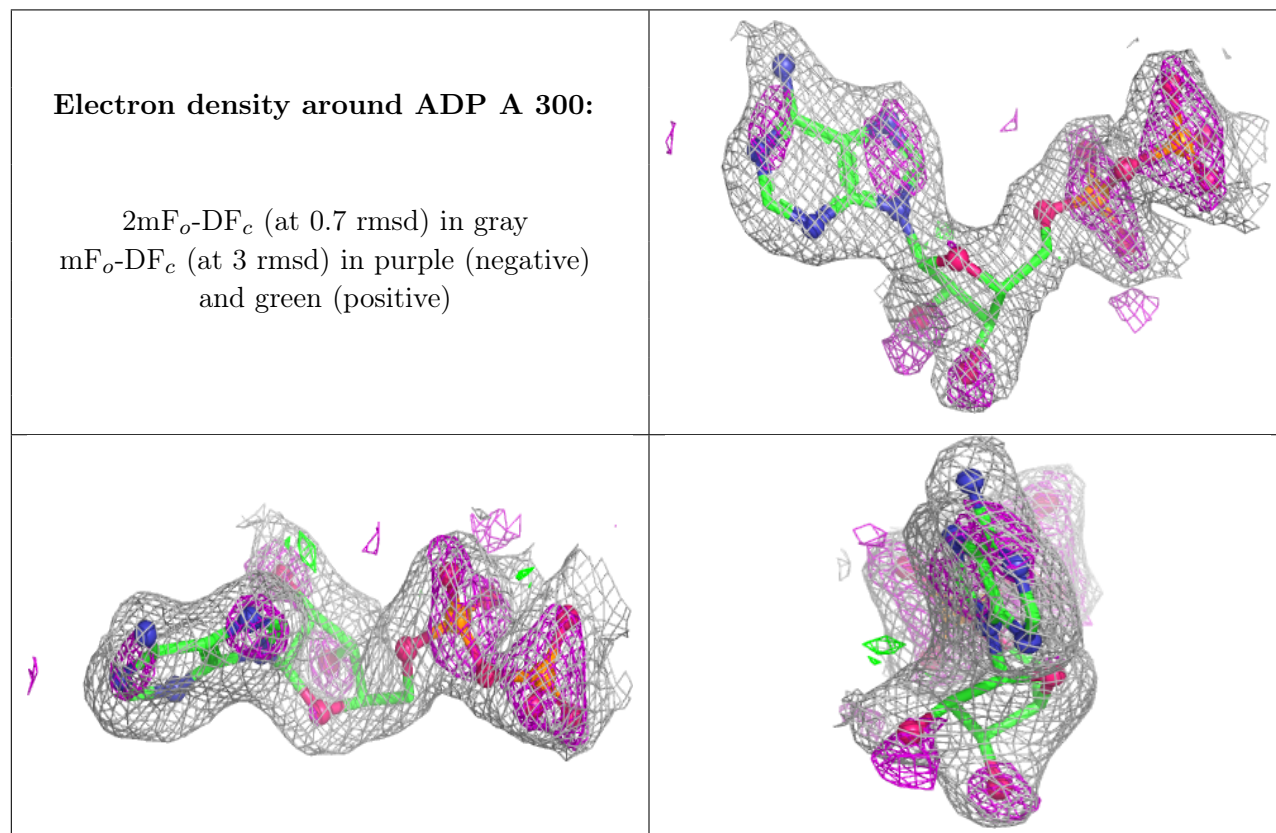
There are no oligosaccharides in this entry.

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, 95th 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
4	EOH	A	403	3/3	0.62	0.33	51,51,52,55	0
4	EOH	A	400	3/3	0.78	0.22	65,65,65,66	0
4	EOH	A	401	3/3	0.82	0.20	47,47,47,48	0
4	EOH	A	402	3/3	0.91	0.14	42,42,44,44	0
3	ADP	A	300	27/27	0.97	0.10	31,39,43,45	0
2	MG	A	301	1/1	0.98	0.08	37,37,37,37	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.