



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 9, 2026 – 10:42 PM UTC

PDB ID : 2I2D / pdb_00002i2d
Title : Crystal structure of LmNADK1
Authors : Poncet-Montange, G.; Labesse, G.
Deposited on : 2006-08-16
Resolution : 2.22 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)
Xtriage (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)
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

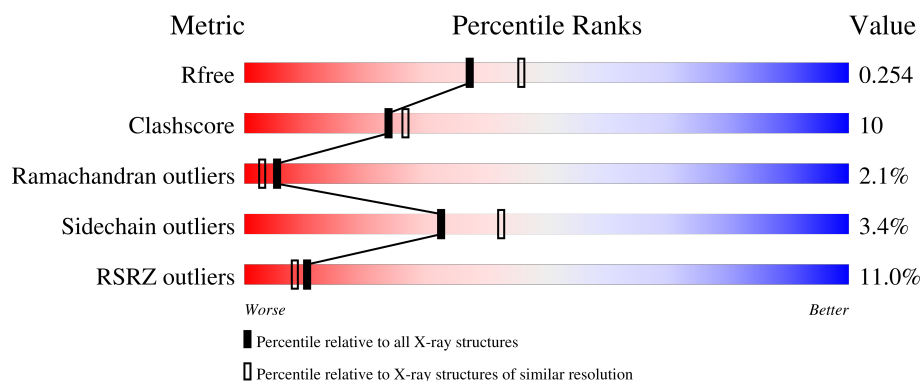
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.22 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	7682 (2.24-2.20)
Clashscore	190562	8402 (2.24-2.20)
Ramachandran outliers	187476	8303 (2.24-2.20)
Sidechain outliers	187428	8304 (2.24-2.20)
RSRZ outliers	180081	7683 (2.24-2.20)

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	272	10% 77% 14% 6%

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 2106 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.

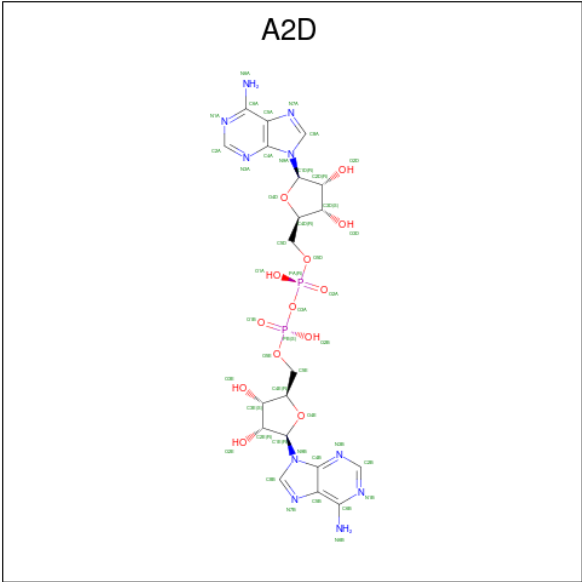
- Molecule 1 is a protein called Probable inorganic polyphosphate/ATP-NAD kinase 1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	255	1989	1276	330	374	9	0	2	0

There are 8 discrepancies between the modelled and reference sequences:

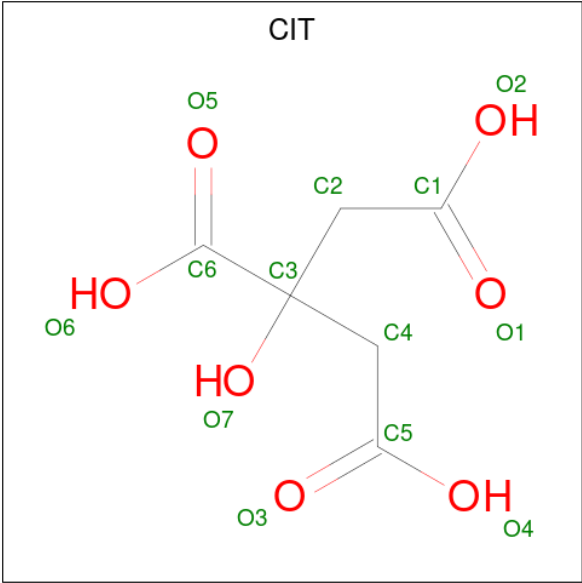
Chain	Residue	Modelled	Actual	Comment	Reference
A	265	LEU	-	cloning artifact	UNP Q8Y8D7
A	266	GLU	-	cloning artifact	UNP Q8Y8D7
A	267	HIS	-	expression tag	UNP Q8Y8D7
A	268	HIS	-	expression tag	UNP Q8Y8D7
A	269	HIS	-	expression tag	UNP Q8Y8D7
A	270	HIS	-	expression tag	UNP Q8Y8D7
A	271	HIS	-	expression tag	UNP Q8Y8D7
A	272	HIS	-	expression tag	UNP Q8Y8D7

- Molecule 2 is BIS{[(2R,3S,4R,5R)-5-(6-AMINO-9H-PURIN-9-YL)-3,4-DIHYDROXYTETRAHYDROFURAN-2-YL]METHYL} DIHYDROGEN DIPHOSPHATE (CCD ID: A2D) (formula: C₂₀H₂₆N₁₀O₁₃P₂).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	N	O	P		
2	A	1	45	20	10	13	2	0	0

- Molecule 3 is CITRIC ACID (CCD ID: CIT) (formula: C₆H₈O₇).



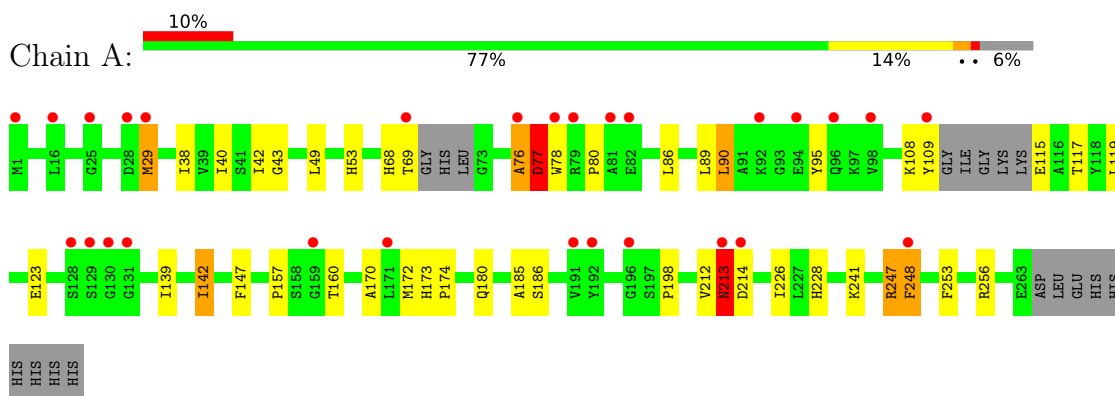
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	C	O		
3	A	1	13	6	7	0	0

- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	59	Total	O	0	0
			59	59		

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- Molecule 1: Probable inorganic polyphosphate/ATP-NAD kinase 1



4 Data and refinement statistics

Property	Value	Source
Space group	I 2 2 2	Depositor
Cell constants a, b, c, α , β , γ	62.48Å 75.85Å 118.35Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	37.93 – 2.22 37.93 – 2.22	Depositor EDS
% Data completeness (in resolution range)	96.6 (37.93-2.22) 96.5 (37.93-2.22)	Depositor EDS
R_{merge}	0.05	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.13 (at 2.22Å)	Xtriage
Refinement program	REFMAC 5.2.0005	Depositor
R, R_{free}	0.207 , 0.252 (Not available) , 0.254	Depositor DCC
R_{free} test set	405 reflections (2.84%)	wwPDB-VP
Wilson B-factor (Å ²)	38.1	Xtriage
Anisotropy	0.208	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 47.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	2106	wwPDB-VP
Average B, all atoms (Å ²)	35.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.89% 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

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: A2D, CIT

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	0.60	0/2049	0.92	3/2774 (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	3

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	212	VAL	N-CA-C	-6.64	106.09	111.81
1	A	77	ASP	N-CA-C	5.44	122.38	110.80
1	A	213	ASN	N-CA-C	5.00	121.46	110.80

There are no chirality outliers.

All (3) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	213	ASN	Peptide
1	A	247	ARG	Peptide
1	A	76	ALA	Peptide

5.2 Too-close contacts ⓘ

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	1989	0	1880	39	0
2	A	45	0	24	4	1
3	A	13	0	5	4	0
4	A	59	0	0	7	1
All	All	2106	0	1909	40	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 10.

All (40) 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:40:ILE:HG22	4:A:327:HOH:O	1.64	0.96
1:A:185:ALA:O	4:A:297:HOH:O	1.91	0.87
1:A:253:PHE:N	3:A:274:CIT:O2	2.07	0.86
1:A:40:ILE:CG2	4:A:327:HOH:O	2.27	0.80
1:A:170:ALA:H	1:A:180:GLN:HE22	1.29	0.77
1:A:76:ALA:HA	1:A:77:ASP:HB2	1.69	0.74
1:A:123:GLU:CD	2:A:273:A2D:H2OB	2.00	0.70
1:A:109:TYR:OH	1:A:228:HIS:HD2	1.74	0.69
1:A:139:ILE:O	1:A:142:ILE:HG12	1.97	0.63
1:A:42:ILE:CG1	4:A:327:HOH:O	2.46	0.63
1:A:247:ARG:CA	1:A:248:PHE:HB2	2.29	0.61
1:A:123:GLU:CD	2:A:273:A2D:O2E	2.42	0.61
1:A:123:GLU:OE1	2:A:273:A2D:O2E	2.17	0.60
1:A:160:THR:HG21	1:A:172:MET:HG3	1.85	0.58
1:A:213:ASN:HB2	4:A:332:HOH:O	2.04	0.56
1:A:108:LYS:HG2	1:A:115:GLU:HG3	1.88	0.56
3:A:274:CIT:O2	3:A:274:CIT:C6	2.55	0.55
1:A:38:ILE:HG21	1:A:90:LEU:HD21	1.89	0.55
1:A:173:HIS:HE2	3:A:274:CIT:C1	2.21	0.54
1:A:76:ALA:CA	1:A:77:ASP:HB2	2.35	0.53
1:A:86:LEU:O	1:A:90:LEU:HB2	2.10	0.51
1:A:157:PRO:HB2	1:A:174:PRO:HA	1.93	0.51
1:A:43:GLY:O	1:A:68:HIS:HA	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:89:LEU:HB3	1:A:248:PHE:CE2	2.47	0.50
1:A:42:ILE:HG13	4:A:327:HOH:O	2.10	0.46
1:A:53:HIS:HE1	1:A:119:LEU:O	1.98	0.46
1:A:180:GLN:HE21	1:A:198:PRO:HB3	1.80	0.46
1:A:78:TRP:HZ2	1:A:248:PHE:HB3	1.82	0.45
1:A:119:LEU:HD11	1:A:241:LYS:HD3	1.98	0.45
1:A:69:THR:HG22	1:A:80:PRO:HG3	2.00	0.44
1:A:95:TYR:HB3	1:A:248:PHE:CE2	2.53	0.43
1:A:170:ALA:H	1:A:180:GLN:NE2	2.08	0.43
1:A:247:ARG:CA	1:A:248:PHE:CB	2.97	0.43
1:A:90:LEU:HA	1:A:248:PHE:HZ	1.83	0.42
1:A:78:TRP:CE2	1:A:86:LEU:HD13	2.55	0.42
1:A:123:GLU:OE2	2:A:273:A2D:O2E	2.38	0.42
1:A:256:ARG:NH2	3:A:274:CIT:O6	2.53	0.42
1:A:109:TYR:OH	1:A:228:HIS:CD2	2.63	0.42
1:A:115:GLU:N	4:A:292:HOH:O	2.53	0.41
1:A:147:PHE:CE2	1:A:186:SER:HB3	2.56	0.40

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)
2:A:273:A2D:N6B	4:A:297:HOH:O[4_555]	1.56	0.64

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	195/272 (72%)	178 (91%)	13 (7%)	4 (2%)	5 3

All (4) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	29	MET
1	A	77	ASP
1	A	248	PHE
1	A	214	ASP

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	210/237 (89%)	203 (97%)	7 (3%)	33	44

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

Mol	Chain	Res	Type
1	A	29	MET
1	A	49	LEU
1	A	77	ASP
1	A	90	LEU
1	A	117	THR
1	A	142	ILE
1	A	226	ILE

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

Mol	Chain	Res	Type
1	A	54	GLN
1	A	180	GLN
1	A	210	GLN
1	A	228	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 oligosaccharides 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		
					Counts	RMSZ	# $ Z > 2$	Counts	RMSZ	# $ Z > 2$
2	A2D	A	273	-	50,50,50	4.22	7 (14%)	74,77,77	2.24	24 (32%)
3	CIT	A	274	-	12,12,12	1.35	2 (16%)	17,17,17	2.26	6 (35%)

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	A2D	A	273	-	-	9/26/58/58	0/6/6/6
3	CIT	A	274	-	-	8/16/16/16	-

All (9) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	273	A2D	PA-O3A	-25.86	1.31	1.59
2	A	273	A2D	PB-O3A	-12.52	1.46	1.59
2	A	273	A2D	PA-O2A	-3.34	1.39	1.50
2	A	273	A2D	C5B-N7B	-2.94	1.33	1.39
2	A	273	A2D	C8B-N9B	-2.69	1.33	1.37
3	A	274	CIT	O2-C1	-2.45	1.22	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	273	A2D	C4B-N9B	-2.24	1.33	1.37
3	A	274	CIT	C2-C3	2.14	1.56	1.54
2	A	273	A2D	C8A-N7A	2.01	1.35	1.31

All (30) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	273	A2D	O2B-PB-O3A	5.72	122.74	107.27
2	A	273	A2D	C5B-C4B-N3B	-5.68	118.90	126.72
2	A	273	A2D	N3A-C2A-N1A	-5.16	120.78	128.58
2	A	273	A2D	O1A-PA-O3A	-4.91	94.01	107.27
3	A	274	CIT	O6-C6-C3	4.79	122.33	113.14
2	A	273	A2D	N3B-C2B-N1B	-4.29	122.09	128.58
2	A	273	A2D	C5A-C4A-N3A	-4.13	121.03	126.72
2	A	273	A2D	N9A-C8A-N7A	-4.13	108.08	113.94
3	A	274	CIT	O2-C1-O1	-3.67	113.89	123.33
2	A	273	A2D	O1A-PA-O2A	3.65	129.41	112.44
2	A	273	A2D	C4A-N9A-C8A	3.47	109.38	105.74
2	A	273	A2D	C2B-N3B-C4B	3.39	120.11	111.83
2	A	273	A2D	C4A-C5A-N7A	-3.38	106.72	110.58
2	A	273	A2D	N3B-C4B-N9B	3.34	132.85	127.17
2	A	273	A2D	O2B-PB-O5E	-3.28	92.72	107.57
2	A	273	A2D	C4B-C5B-N7B	-3.27	106.84	110.58
3	A	274	CIT	C2-C3-C6	3.23	117.19	110.03
2	A	273	A2D	C2A-N3A-C4A	3.20	119.65	111.83
2	A	273	A2D	N9B-C8B-N7B	-3.14	109.48	113.94
2	A	273	A2D	C5A-N7A-C8A	3.10	108.31	103.45
3	A	274	CIT	C4-C3-C6	-3.02	103.35	110.03
2	A	273	A2D	O3E-C3E-C2E	-3.00	102.20	111.82
2	A	273	A2D	C5B-N7B-C8B	2.73	107.74	103.45
2	A	273	A2D	N3A-C4A-N9A	2.53	131.47	127.17
2	A	273	A2D	O2E-C2E-C3E	-2.48	103.86	111.82
3	A	274	CIT	O4-C5-C4	2.48	122.20	114.35
2	A	273	A2D	C4A-N9A-C1D	-2.47	120.85	126.63
3	A	274	CIT	O7-C3-C6	-2.31	105.68	108.96
2	A	273	A2D	C5B-C4B-N9B	2.24	108.25	105.81
2	A	273	A2D	C2A-N1A-C6A	2.17	122.30	118.73

There are no chirality outliers.

All (17) torsion outliers are listed below:

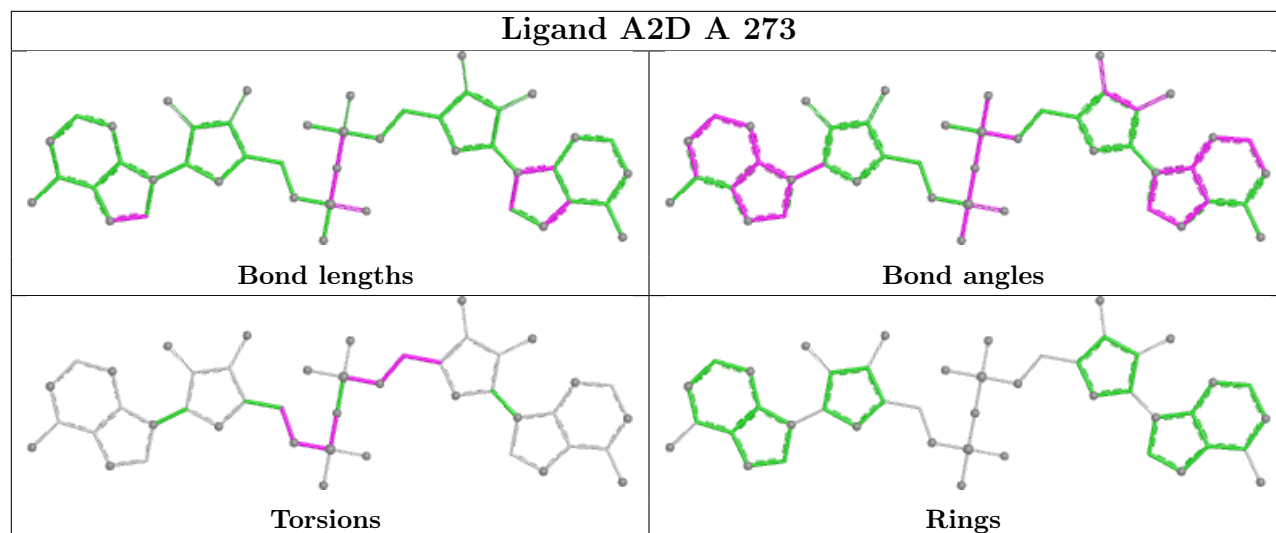
Mol	Chain	Res	Type	Atoms
2	A	273	A2D	C5D-O5D-PA-O1A
2	A	273	A2D	O4E-C4E-C5E-O5E
2	A	273	A2D	C3E-C4E-C5E-O5E
3	A	274	CIT	C1-C2-C3-O7
3	A	274	CIT	C1-C2-C3-C4
3	A	274	CIT	C1-C2-C3-C6
2	A	273	A2D	C5E-O5E-PB-O3A
2	A	273	A2D	C5E-O5E-PB-O1B
2	A	273	A2D	C5E-O5E-PB-O2B
3	A	274	CIT	C6-C3-C4-C5
3	A	274	CIT	C3-C4-C5-O4
2	A	273	A2D	C4D-C5D-O5D-PA
2	A	273	A2D	C4E-C5E-O5E-PB
3	A	274	CIT	C3-C4-C5-O3
3	A	274	CIT	O2-C1-C2-C3
3	A	274	CIT	O1-C1-C2-C3
2	A	273	A2D	PB-O3A-PA-O2A

There are no ring outliers.

2 monomers are involved in 9 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	273	A2D	4	1
3	A	274	CIT	4	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	255/272 (93%)	0.68	28 (10%) 10 8	15, 34, 40, 43	45 (17%)

All (28) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	28	ASP	6.6
1	A	130	GLY	4.9
1	A	76	ALA	4.8
1	A	1	MET	4.8
1	A	131	GLY	3.6
1	A	94	GLU	3.6
1	A	82	GLU	3.3
1	A	248	PHE	3.0
1	A	92	LYS	3.0
1	A	78	TRP	2.8
1	A	81	ALA	2.8
1	A	213	ASN	2.7
1	A	69	THR	2.7
1	A	214	ASP	2.7
1	A	16	LEU	2.7
1	A	29	MET	2.6
1	A	79	ARG	2.6
1	A	129	SER	2.5
1	A	25	GLY	2.5
1	A	128	SER	2.4
1	A	98	VAL	2.4
1	A	109	TYR	2.3
1	A	192	TYR	2.3
1	A	191	VAL	2.3
1	A	96	GLN	2.2
1	A	196	GLY	2.2
1	A	171	LEU	2.1

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Mol	Chain	Res	Type	RSRZ
1	A	159	GLY	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](#)

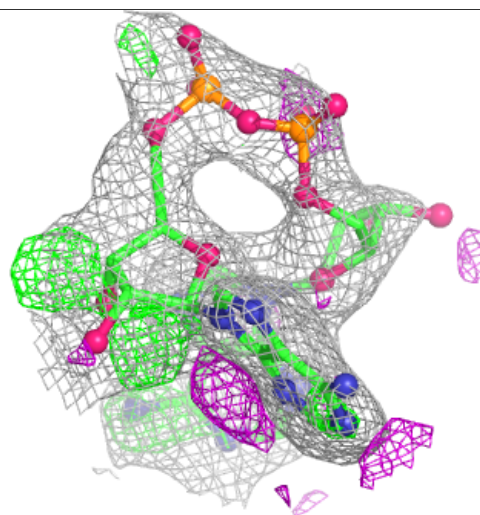
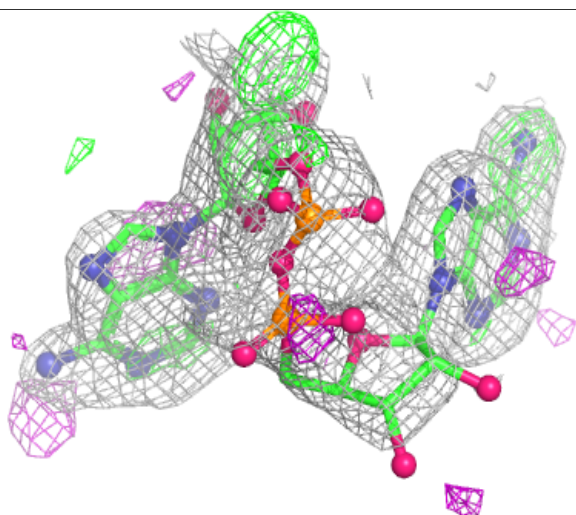
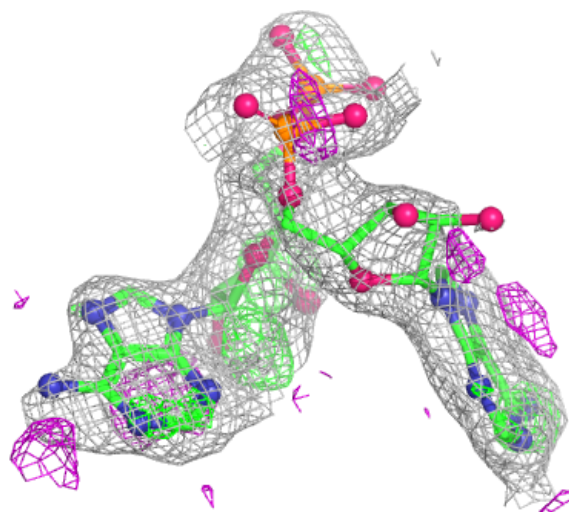
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
3	CIT	A	274	13/13	0.49	0.21	36,37,38,39	0
2	A2D	A	273	45/45	0.67	0.20	31,37,54,57	9

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.

Electron density around A2D A 273:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



6.5 Other polymers [i](#)

There are no such residues in this entry.