



wwPDB X-ray Structure Validation Summary Report ⓘ

Mar 9, 2026 – 08:01 AM UTC

PDB ID : 5BJX / pdb_00005bjx
Title : X-ray structure of the PglF 4,6-dehydratase from campylobacter jejuni, variant T395V, in complex with UDP
Authors : Riegert, A.S.; Thoden, J.B.; Holden, H.M.
Deposited on : 2017-09-12
Resolution : 1.60 Å(reported)

This is a wwPDB X-ray Structure Validation Summary 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

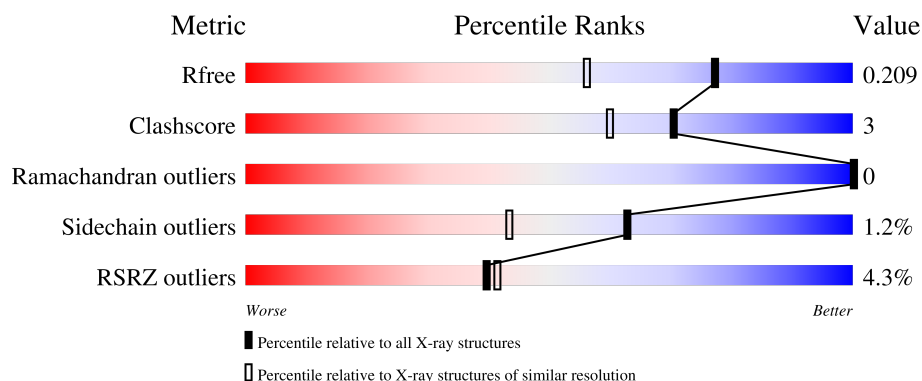
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.60 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	4673 (1.60-1.60)
Clashscore	190562	4931 (1.60-1.60)
Ramachandran outliers	187476	4831 (1.60-1.60)
Sidechain outliers	187428	4830 (1.60-1.60)
RSRZ outliers	180081	4672 (1.60-1.60)

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	366	6% 84% 8% 7%
1	B	366	2% 85% 8% 7%

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 6288 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 WlaL protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	339	Total	C	N	O	S	0	9	0
			2695	1734	440	505	16			
1	B	340	Total	C	N	O	S	0	7	0
			2697	1733	444	505	15			

There are 40 discrepancies between the modelled and reference sequences:

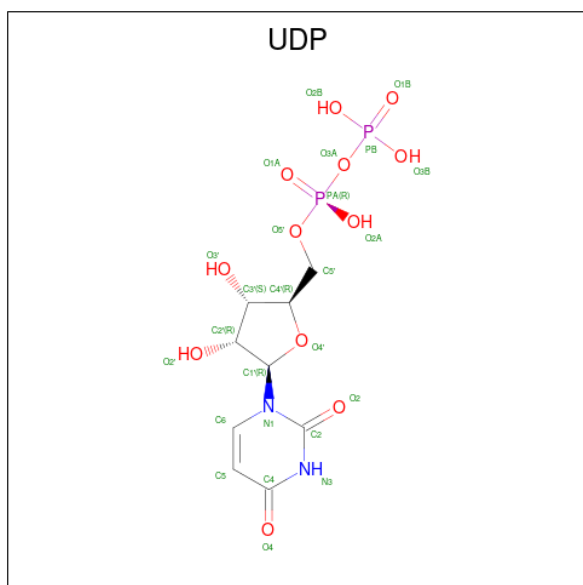
Chain	Residue	Modelled	Actual	Comment	Reference
A	395	VAL	THR	engineered mutation	UNP O86159
A	591	ALA	-	expression tag	UNP O86159
A	592	ALA	-	expression tag	UNP O86159
A	593	GLY	-	expression tag	UNP O86159
A	594	PHE	-	expression tag	UNP O86159
A	595	ASN	-	expression tag	UNP O86159
A	596	ARG	-	expression tag	UNP O86159
A	597	ILE	-	expression tag	UNP O86159
A	598	PRO	-	expression tag	UNP O86159
A	599	ALA	-	expression tag	UNP O86159
A	600	ALA	-	expression tag	UNP O86159
A	601	ALA	-	expression tag	UNP O86159
A	602	LEU	-	expression tag	UNP O86159
A	603	GLU	-	expression tag	UNP O86159
A	604	HIS	-	expression tag	UNP O86159
A	605	HIS	-	expression tag	UNP O86159
A	606	HIS	-	expression tag	UNP O86159
A	607	HIS	-	expression tag	UNP O86159
A	608	HIS	-	expression tag	UNP O86159
A	609	HIS	-	expression tag	UNP O86159
B	395	VAL	THR	engineered mutation	UNP O86159
B	591	ALA	-	expression tag	UNP O86159
B	592	ALA	-	expression tag	UNP O86159
B	593	GLY	-	expression tag	UNP O86159
B	594	PHE	-	expression tag	UNP O86159

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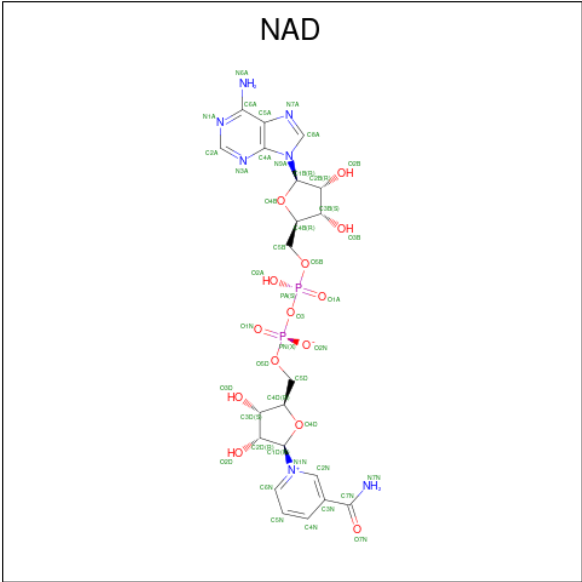
Chain	Residue	Modelled	Actual	Comment	Reference
B	595	ASN	-	expression tag	UNP O86159
B	596	ARG	-	expression tag	UNP O86159
B	597	ILE	-	expression tag	UNP O86159
B	598	PRO	-	expression tag	UNP O86159
B	599	ALA	-	expression tag	UNP O86159
B	600	ALA	-	expression tag	UNP O86159
B	601	ALA	-	expression tag	UNP O86159
B	602	LEU	-	expression tag	UNP O86159
B	603	GLU	-	expression tag	UNP O86159
B	604	HIS	-	expression tag	UNP O86159
B	605	HIS	-	expression tag	UNP O86159
B	606	HIS	-	expression tag	UNP O86159
B	607	HIS	-	expression tag	UNP O86159
B	608	HIS	-	expression tag	UNP O86159
B	609	HIS	-	expression tag	UNP O86159

- Molecule 2 is URIDINE-5'-DIPHOSPHATE (CCD ID: UDP) (formula: $C_9H_{14}N_2O_{12}P_2$).



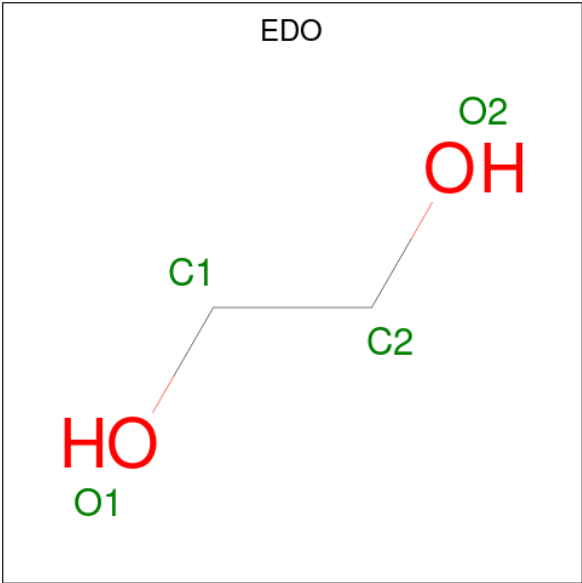
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
2	A	1	Total	C	N	O	P	0	0
			25	9	2	12	2		
2	B	1	Total	C	N	O	P	0	0
			25	9	2	12	2		

- Molecule 3 is NICOTINAMIDE-ADENINE-DINUCLEOTIDE (CCD ID: NAD) (formula: $C_{21}H_{27}N_7O_{14}P_2$).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	A	1	Total	C	N	O	P	0	0
			44	21	7	14	2		
3	B	1	Total	C	N	O	P	0	0
			44	21	7	14	2		

- Molecule 4 is 1,2-ETHANEDIOL (CCD ID: EDO) (formula: C₂H₆O₂).



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

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

- Molecule 5 is SODIUM ION (CCD ID: NA) (formula: Na).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	5	Total	Na	0	0
			5	5		
5	B	3	Total	Na	0	0
			3	3		

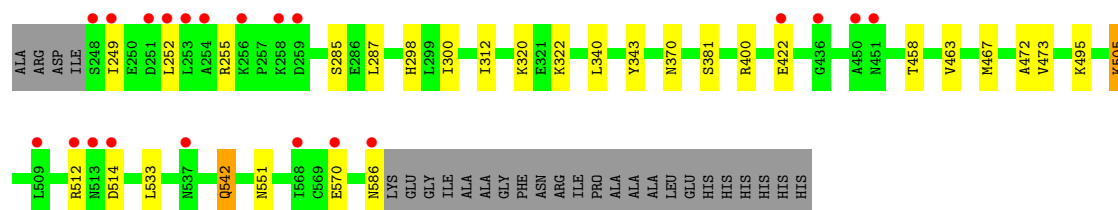
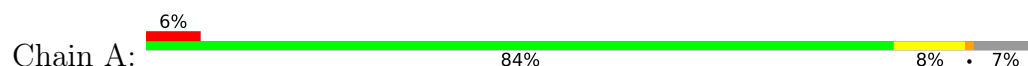
- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	349	Total	O	0	0
			349	349		
6	B	381	Total	O	0	0
			381	381		

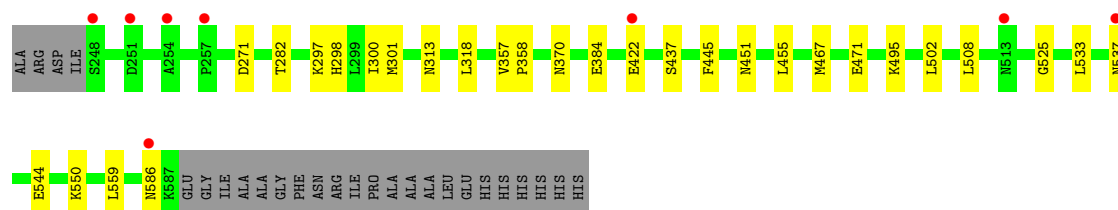
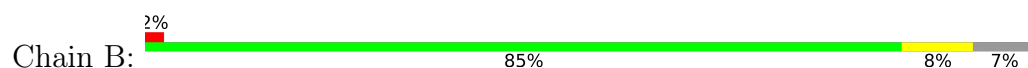
3 Residue-property plots [i](#)

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: WlaL protein



• Molecule 1: WlaL protein



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	69.23Å 108.25Å 108.37Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	31.00 – 1.60 31.00 – 1.60	Depositor EDS
% Data completeness (in resolution range)	98.8 (31.00-1.60) 99.0 (31.00-1.60)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	0.07	Depositor
$\langle I/\sigma(I) \rangle$ ¹	17.63 (at 1.60Å)	Xtriage
Refinement program	REFMAC 5.8.0124	Depositor
R, R_{free}	0.162 , 0.185 (Not available) , 0.209	Depositor DCC
R_{free} test set	5315 reflections (4.92%)	wwPDB-VP
Wilson B-factor (Å ²)	12.4	Xtriage
Anisotropy	0.047	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.38 , 44.9	EDS
L-test for twinning ²	$\langle L \rangle = 0.47$, $\langle L^2 \rangle = 0.30$	Xtriage
Estimated twinning fraction	0.000 for -h,l,k	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	6288	wwPDB-VP
Average B, all atoms (Å ²)	17.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 43.56 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 1.7331e-04. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

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: EDO, NAD, NA, UDP

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	0.75	0/2760	0.94	4/3722 (0.1%)
1	B	0.75	1/2756 (0.0%)	0.93	3/3719 (0.1%)
All	All	0.75	1/5516 (0.0%)	0.94	7/7441 (0.1%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	559	LEU	C-O	5.21	1.30	1.24

The worst 5 of 7 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	533	LEU	N-CA-C	7.14	119.14	111.36
1	A	495	LYS	CA-C-N	-6.65	113.94	120.52
1	A	495	LYS	C-N-CA	-6.65	113.94	120.52
1	B	495	LYS	CA-C-N	-6.07	114.51	120.52
1	B	495	LYS	C-N-CA	-6.07	114.51	120.52

There are no chirality outliers.

There are no planarity outliers.

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	2695	0	2836	20	0
1	B	2697	0	2833	18	0
2	A	25	0	11	1	0
2	B	25	0	11	0	0
3	A	44	0	26	2	0
3	B	44	0	26	2	0
4	A	8	0	12	1	0
4	B	12	0	18	0	0
5	A	5	0	0	0	0
5	B	3	0	0	0	0
6	A	349	0	0	8	1
6	B	381	0	0	4	1
All	All	6288	0	5773	39	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 3.

The worst 5 of 39 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:542:GLN:H	1:A:542:GLN:HE21	1.12	0.89
1:A:255:ARG:HB2	6:A:817:HOH:O	1.78	0.83
1:B:370:ASN:HD21	3:B:702:NAD:H61A	1.34	0.74
1:A:551:ASN:OD1	6:A:801:HOH:O	2.06	0.73
1:A:370:ASN:HD21	3:A:702:NAD:H61A	1.40	0.69

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)
6:A:972:HOH:O	6:B:984:HOH:O[2_455]	2.16	0.04

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	346/366 (94%)	344 (99%)	2 (1%)	0	100	100
1	B	345/366 (94%)	343 (99%)	2 (1%)	0	100	100
All	All	691/732 (94%)	687 (99%)	4 (1%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains ⓘ

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	307/317 (97%)	301 (98%)	6 (2%)	48	24
1	B	306/317 (96%)	305 (100%)	1 (0%)	86	78
All	All	613/634 (97%)	606 (99%)	7 (1%)	63	46

5 of 7 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	505	LYS
1	A	542	GLN
1	B	451	ASN
1	A	570	GLU
1	A	463	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 13 such sidechains are listed below:

Mol	Chain	Res	Type
1	B	334	GLN
1	B	362	GLN
1	B	537	ASN
1	B	370	ASN
1	B	423	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

Of 17 ligands modelled in this entry, 8 are monoatomic - leaving 9 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$
4	EDO	B	705	-	3,3,3	0.52	0	2,2,2	0.29	0
4	EDO	B	704	-	3,3,3	0.51	0	2,2,2	0.51	0
3	NAD	B	702	-	46,48,48	0.92	2 (4%)	64,73,73	1.48	12 (18%)
4	EDO	A	703	-	3,3,3	0.57	0	2,2,2	0.61	0
2	UDP	A	701	-	25,26,26	1.24	4 (16%)	38,40,40	1.45	5 (13%)
2	UDP	B	701	-	25,26,26	1.01	1 (4%)	38,40,40	1.51	7 (18%)
3	NAD	A	702	-	46,48,48	1.04	4 (8%)	64,73,73	1.71	14 (21%)
4	EDO	A	704	-	3,3,3	0.51	0	2,2,2	0.20	0
4	EDO	B	703	-	3,3,3	0.49	0	2,2,2	0.26	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
4	EDO	B	705	-	-	0/1/1/1	-
4	EDO	B	704	-	-	0/1/1/1	-
3	NAD	B	702	-	-	4/30/62/62	0/5/5/5
4	EDO	A	703	-	-	1/1/1/1	-
2	UDP	A	701	-	-	1/16/32/32	0/2/2/2
2	UDP	B	701	-	-	1/16/32/32	0/2/2/2
3	NAD	A	702	-	-	5/30/62/62	0/5/5/5
4	EDO	A	704	-	-	0/1/1/1	-
4	EDO	B	703	-	-	0/1/1/1	-

The worst 5 of 11 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	702	NAD	C8A-N7A	2.93	1.37	1.31
3	A	702	NAD	C5A-C4A	2.78	1.44	1.39
3	B	702	NAD	C8A-N7A	2.73	1.36	1.31
2	B	701	UDP	C4-N3	-2.68	1.34	1.38
2	A	701	UDP	C2-N3	-2.66	1.33	1.38

The worst 5 of 38 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	702	NAD	C4A-N9A-C8A	5.78	111.81	105.74
3	A	702	NAD	N9A-C8A-N7A	-4.36	107.75	113.94
2	B	701	UDP	C4-N3-C2	-4.34	121.23	126.61
2	A	701	UDP	C4-N3-C2	-4.30	121.28	126.61
3	B	702	NAD	N3A-C2A-N1A	-4.15	122.30	128.58

There are no chirality outliers.

5 of 12 torsion outliers are listed below:

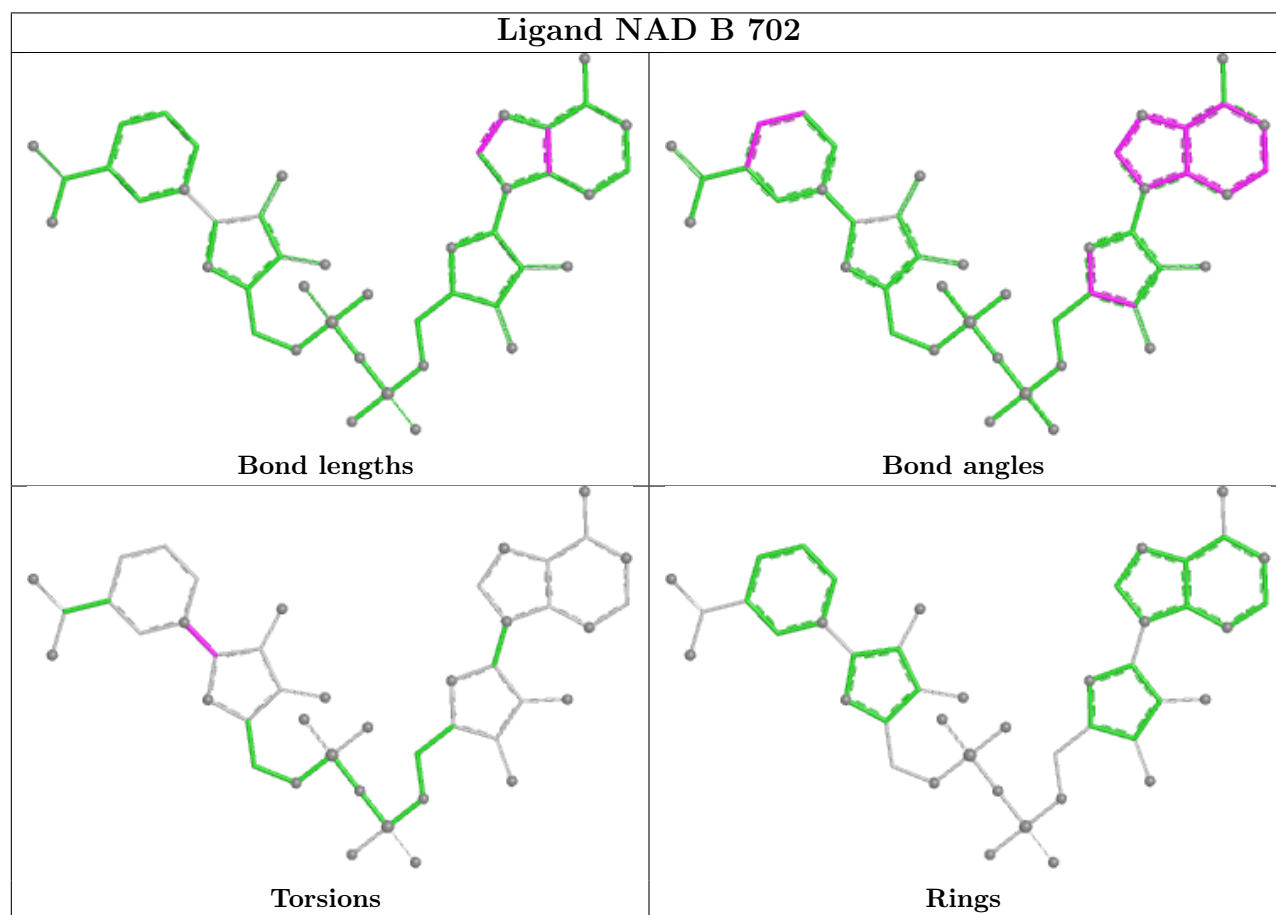
Mol	Chain	Res	Type	Atoms
2	A	701	UDP	PB-O3A-PA-O5'
2	B	701	UDP	PB-O3A-PA-O5'
3	A	702	NAD	O4D-C1D-N1N-C2N
3	A	702	NAD	O4D-C1D-N1N-C6N
3	B	702	NAD	O4D-C1D-N1N-C2N

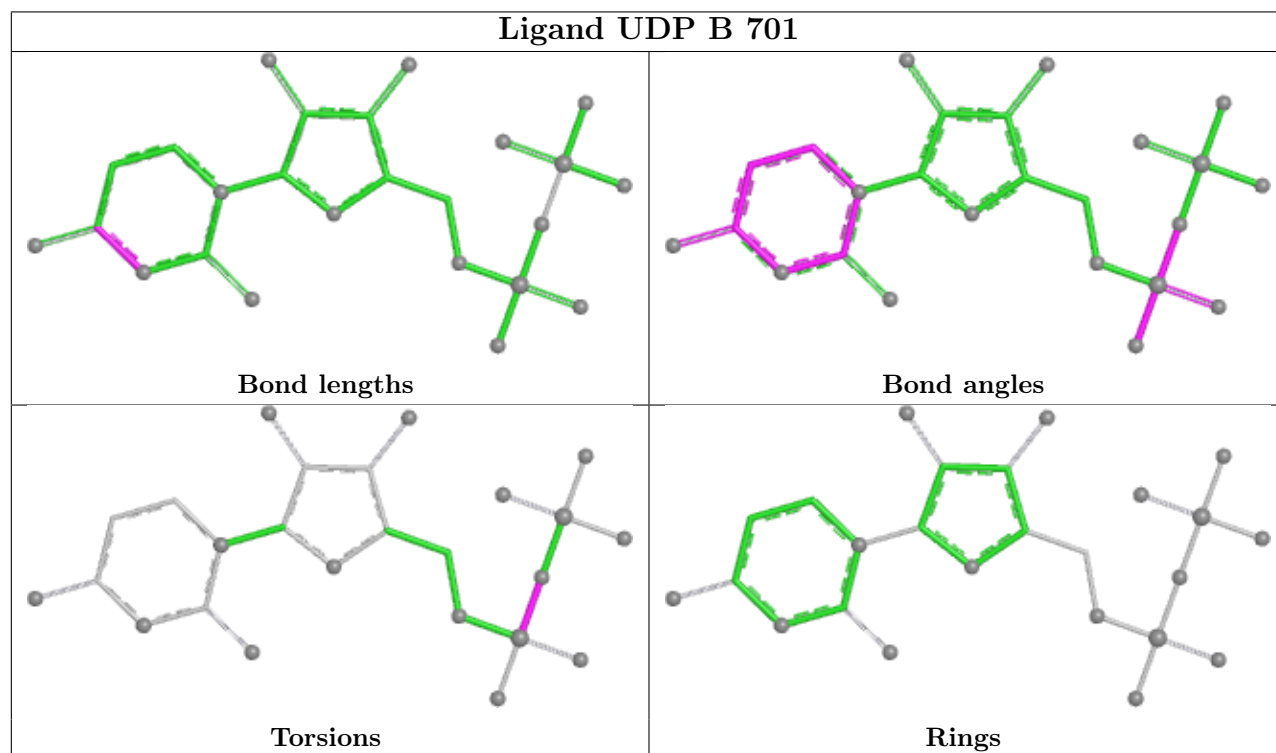
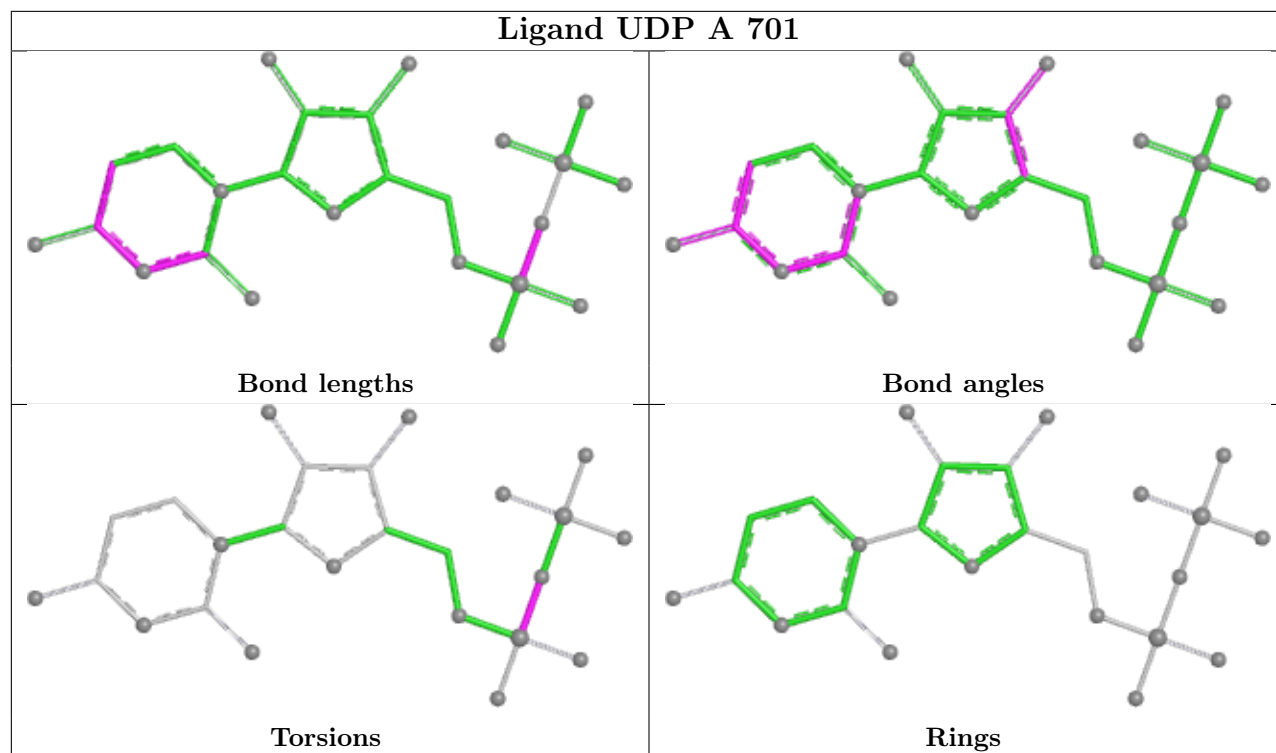
There are no ring outliers.

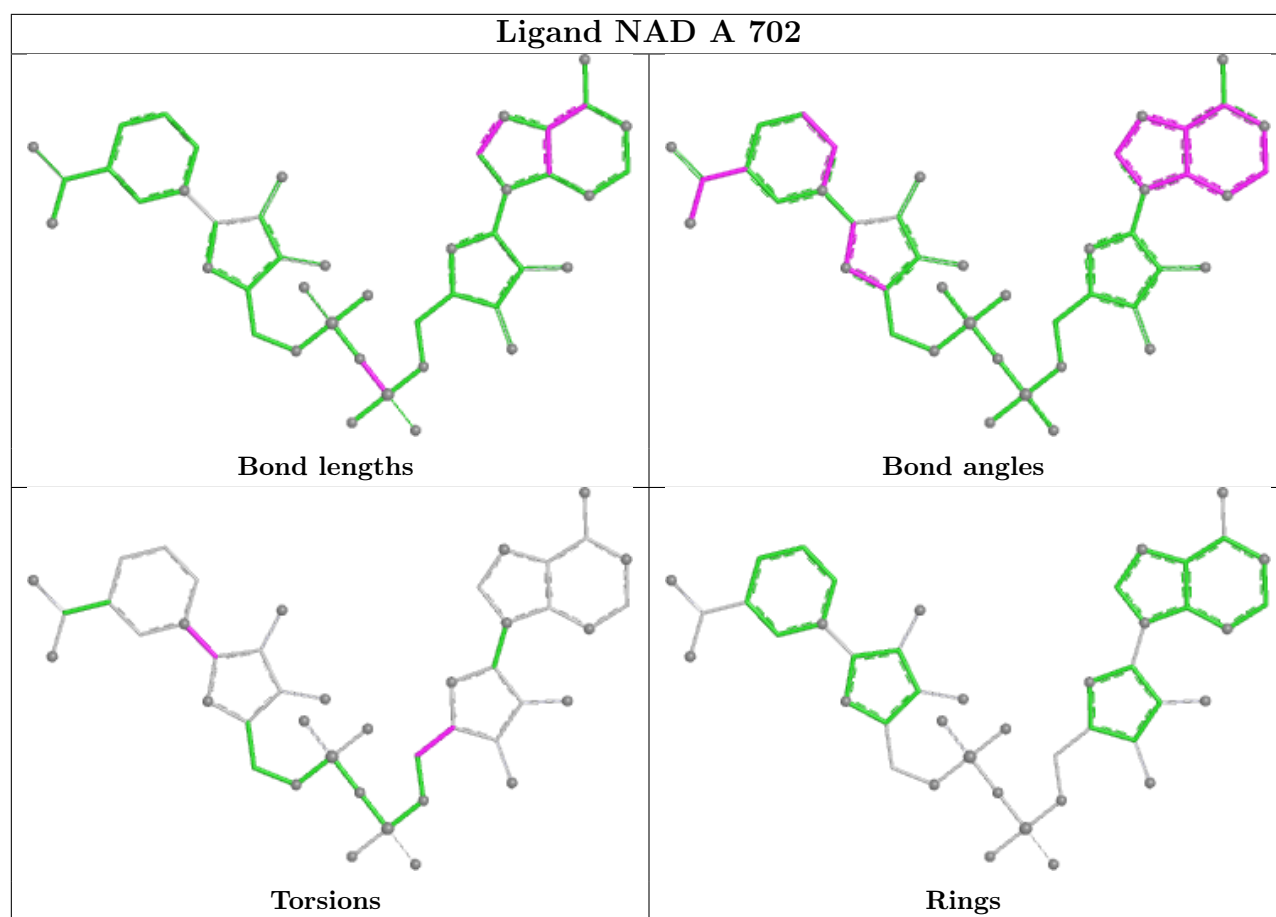
4 monomers are involved in 6 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	B	702	NAD	2	0
4	A	703	EDO	1	0
2	A	701	UDP	1	0
3	A	702	NAD	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 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 [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, 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	339/366 (92%)	0.02	21 (6%) 26 27	5, 13, 34, 53	9 (2%)
1	B	340/366 (92%)	-0.08	8 (2%) 59 63	6, 13, 30, 46	7 (2%)
All	All	679/732 (92%)	-0.03	29 (4%) 40 41	5, 13, 33, 53	16 (2%)

The worst 5 of 29 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	586	ASN	5.5
1	A	586	ASN	5.3
1	A	249	ILE	5.2
1	A	251	ASP	4.5
1	A	514	ASP	3.7

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](#)

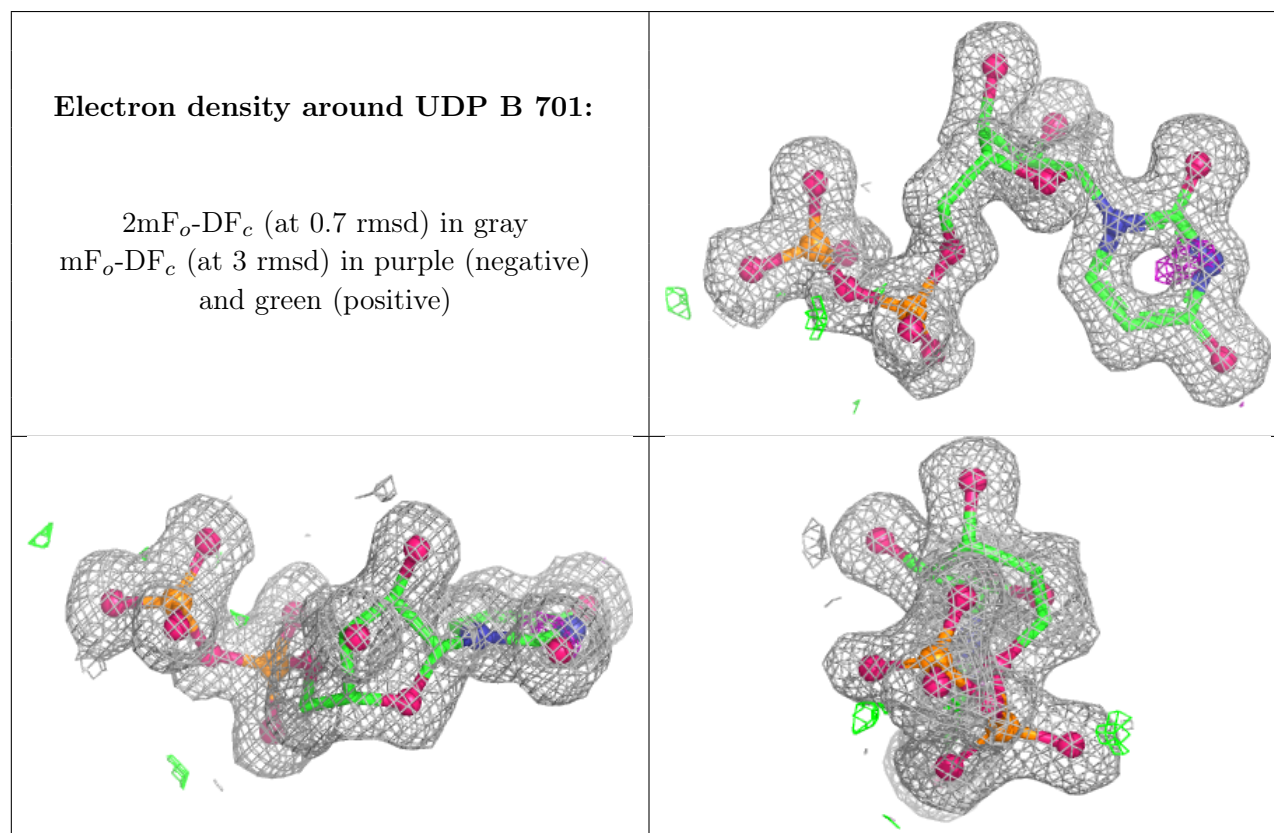
There are no oligosaccharides in this entry.

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.

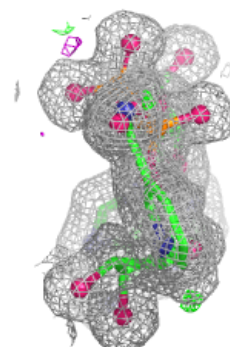
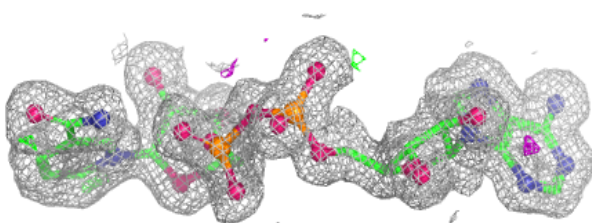
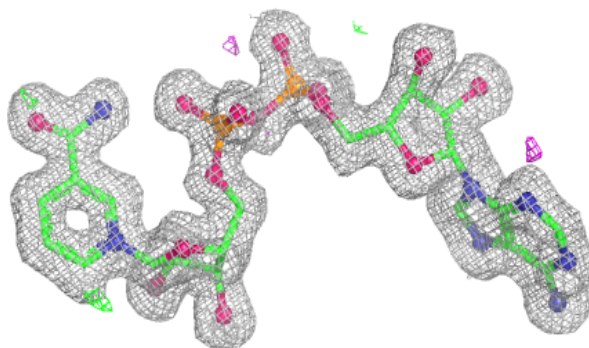
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
4	EDO	B	705	4/4	0.86	0.14	32,33,34,35	0
5	NA	A	709	1/1	0.87	0.31	39,39,39,39	0
4	EDO	A	704	4/4	0.89	0.12	26,32,32,33	0
4	EDO	B	703	4/4	0.91	0.12	22,26,33,35	0
4	EDO	A	703	4/4	0.92	0.11	13,15,18,29	0
5	NA	A	708	1/1	0.93	0.08	33,33,33,33	0
4	EDO	B	704	4/4	0.95	0.07	14,16,18,21	0
5	NA	A	706	1/1	0.95	0.18	27,27,27,27	0
5	NA	B	708	1/1	0.95	0.17	28,28,28,28	0
5	NA	A	705	1/1	0.96	0.21	30,30,30,30	0
5	NA	B	707	1/1	0.97	0.11	19,19,19,19	0
5	NA	B	706	1/1	0.98	0.10	24,24,24,24	0
2	UDP	B	701	25/25	0.98	0.04	7,8,11,13	0
5	NA	A	707	1/1	0.98	0.15	20,20,20,20	0
3	NAD	A	702	44/44	0.99	0.03	5,7,10,14	0
3	NAD	B	702	44/44	0.99	0.04	5,7,9,12	0
2	UDP	A	701	25/25	0.99	0.04	8,9,12,14	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.

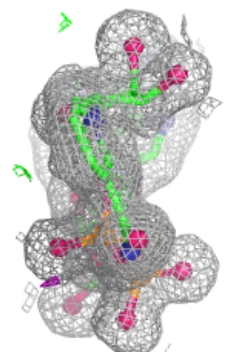
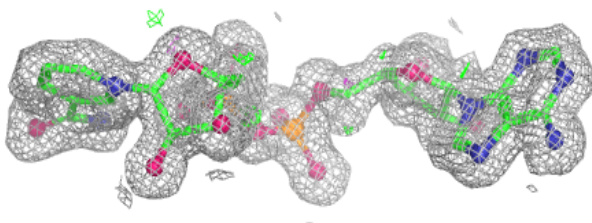
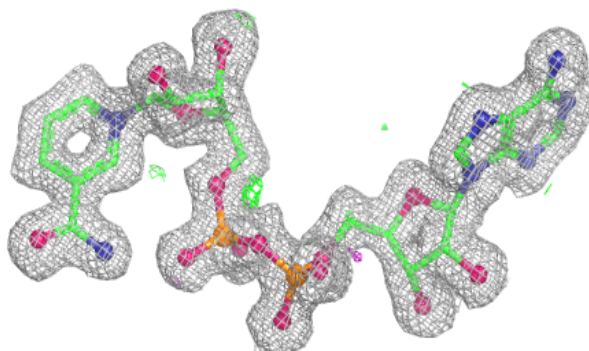


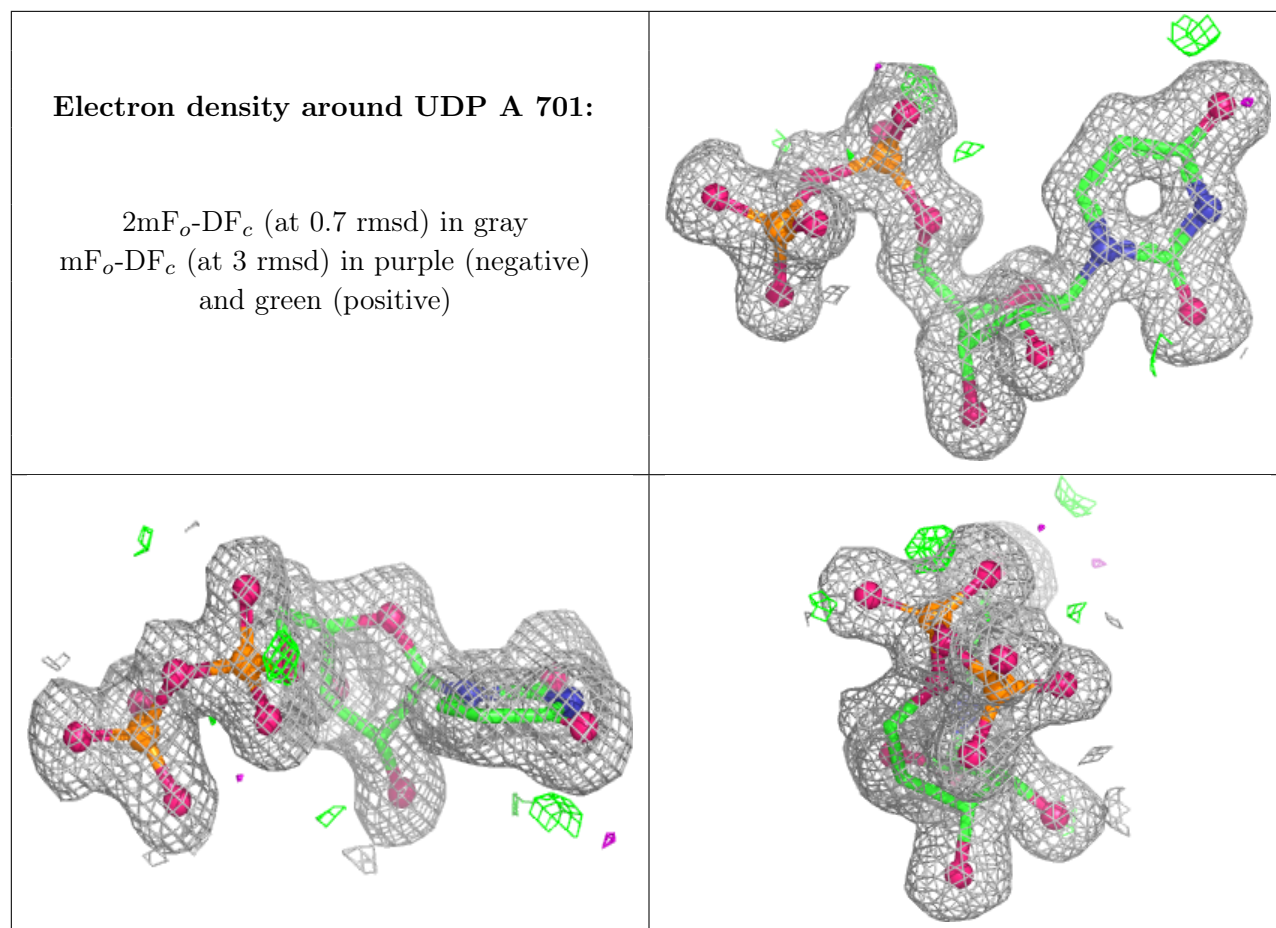
Electron density around NAD A 702:

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

**Electron density around NAD B 702:**

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





6.5 Other polymers ⓘ

There are no such residues in this entry.