



# wwPDB X-ray Structure Validation Summary Report ⓘ

Mar 10, 2026 – 03:51 AM UTC

PDB ID : 6EBV / pdb\_00006ebv  
Title : Staphylococcus aureus Type II pantothenate kinase in complex with ADP and pantothenate analog Deoxy-N7-Pan  
Authors : Chen, Y.; Antoshchenko, T.; Strauss, E.; Barnard, L.; Huang, Y.H.; Park, H.  
Deposited on : 2018-08-07  
Resolution : 3.00 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](mailto: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>.

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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

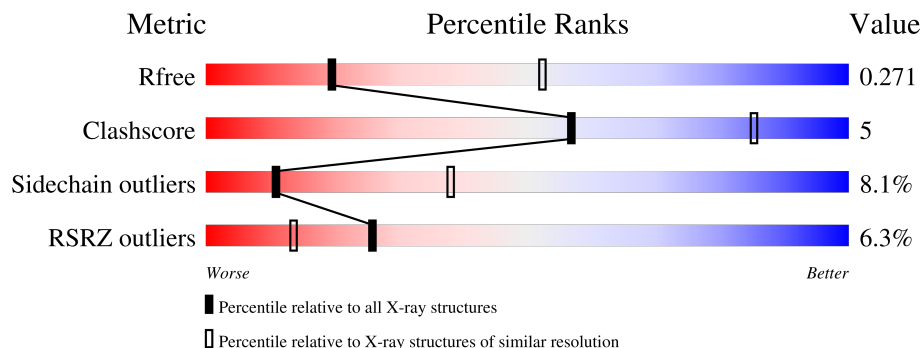
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 3.00 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	2672 (3.00-3.00)
Clashscore	190562	2977 (3.00-3.00)
Sidechain outliers	187428	2880 (3.00-3.00)
RSRZ outliers	180081	2671 (3.00-3.00)

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  $\geq 3$ , 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	267	<div> <div>5%</div> <div>79%</div> <div>19%</div> <div>.</div> </div>
1	B	267	<div> <div>6%</div> <div>76%</div> <div>21%</div> <div>.</div> </div>
1	C	267	<div> <div>5%</div> <div>78%</div> <div>21%</div> <div>.</div> </div>
1	D	267	<div> <div>9%</div> <div>79%</div> <div>20%</div> <div>..</div> </div>

## 2 Entry composition [i](#)

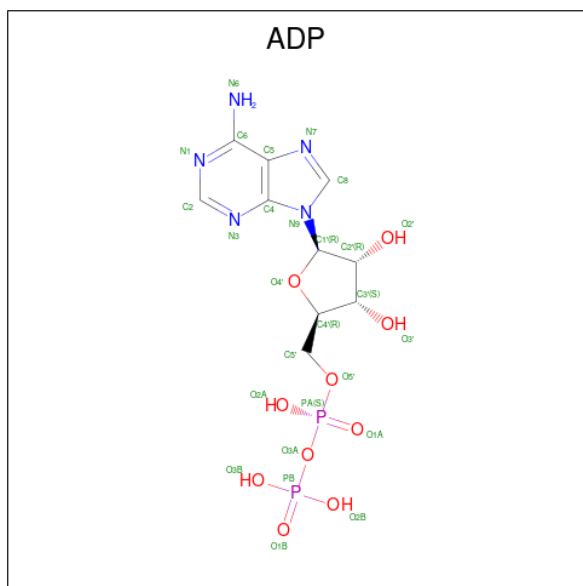
There are 4 unique types of molecules in this entry. The entry contains 8361 atoms, of which 12 are hydrogens and 0 are deuteriums.

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 Type II pantothenate kinase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	266	Total	C	N	O	S	0	0	0
			2031	1287	348	390	6			
1	B	266	Total	C	N	O	S	0	0	0
			2032	1289	349	388	6			
1	C	267	Total	C	N	O	S	0	0	0
			2037	1292	350	389	6			
1	D	265	Total	C	N	O	S	0	0	0
			2023	1284	348	385	6			

- Molecule 2 is ADENOSINE-5'-DIPHOSPHATE (CCD ID: ADP) (formula:  $C_{10}H_{15}N_5O_{10}P_2$ ).



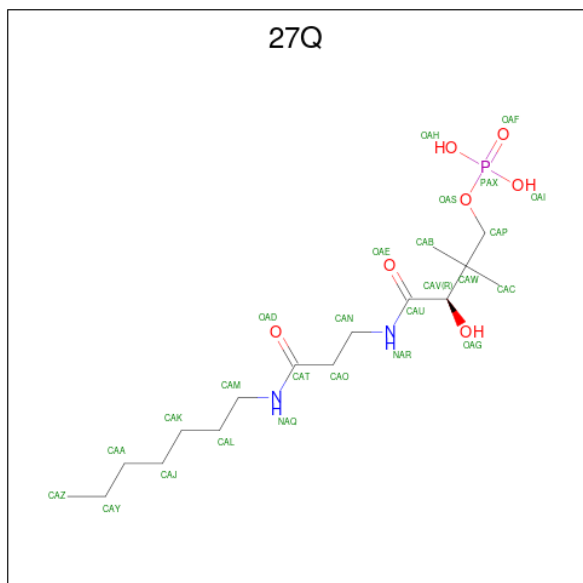
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
2	A	1	Total	C	N	O	P	0	0
			27	10	5	10	2		
2	B	1	Total	C	N	O	P	0	0
			27	10	5	10	2		

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

- Molecule 3 is N-heptyl-N 3 -[(2R)-2-hydroxy-3,3-dimethyl-4-(phosphonooxy)butanoyl]-beta-alaninamide (CCD ID: 27Q) (formula: C<sub>16</sub>H<sub>33</sub>N<sub>2</sub>O<sub>7</sub>P).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	A	1	Total	C	H	N	O	0	0
			24	16	3	2	3		
3	B	1	Total	C	H	N	O	0	0
			24	16	3	2	3		
3	C	1	Total	C	H	N	O	0	0
			24	16	3	2	3		
3	D	1	Total	C	H	N	O	0	0
			24	16	3	2	3		

- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	7	Total	O	0	0
			7	7		
4	B	14	Total	O	0	0
			14	14		
4	C	8	Total	O	0	0
			8	8		

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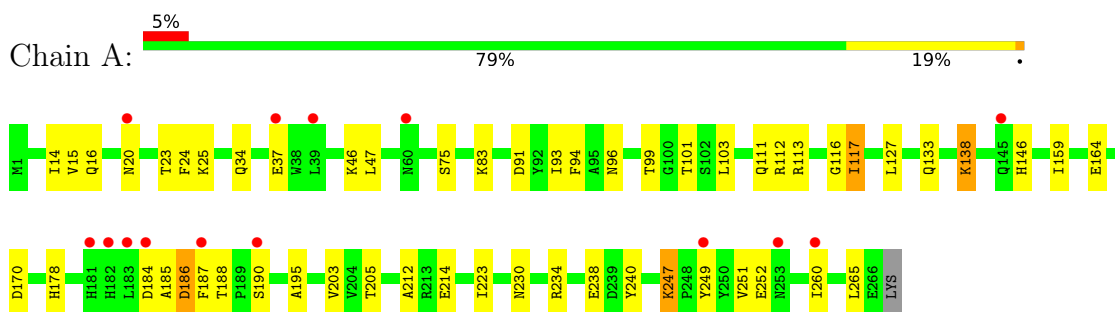
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	D	5	Total	O	0	0
			5	5		

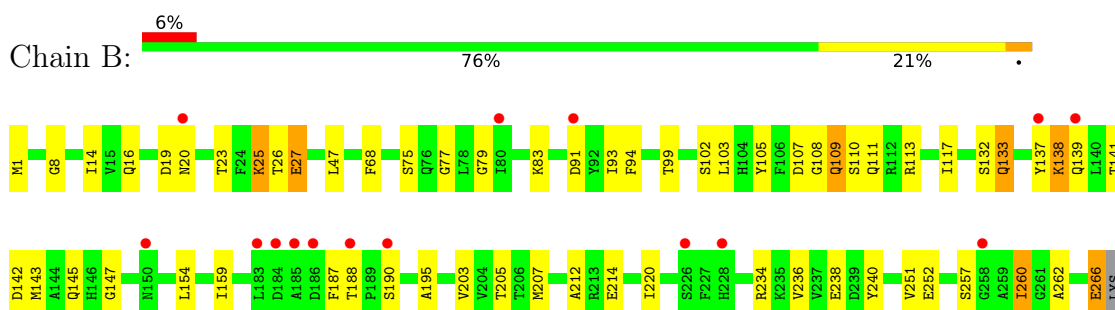
### 3 Residue-property plots [i](#)

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.

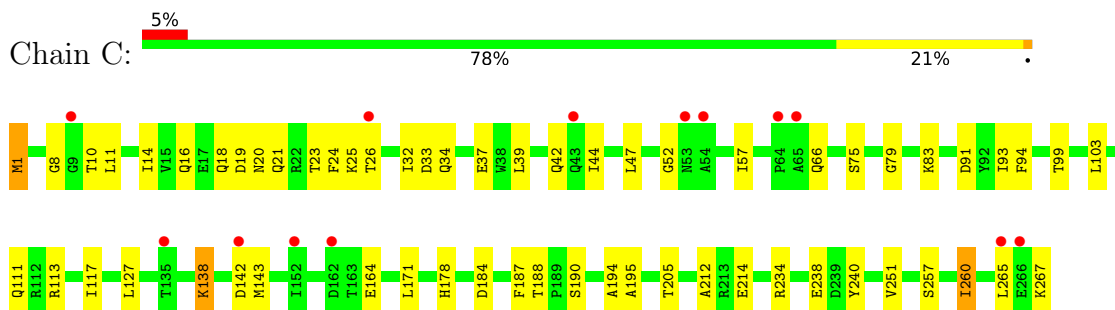
- Molecule 1: Type II pantothenate kinase



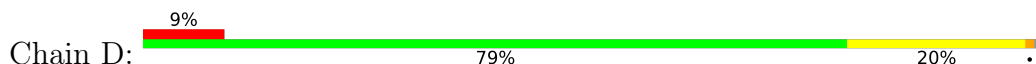
- Molecule 1: Type II pantothenate kinase

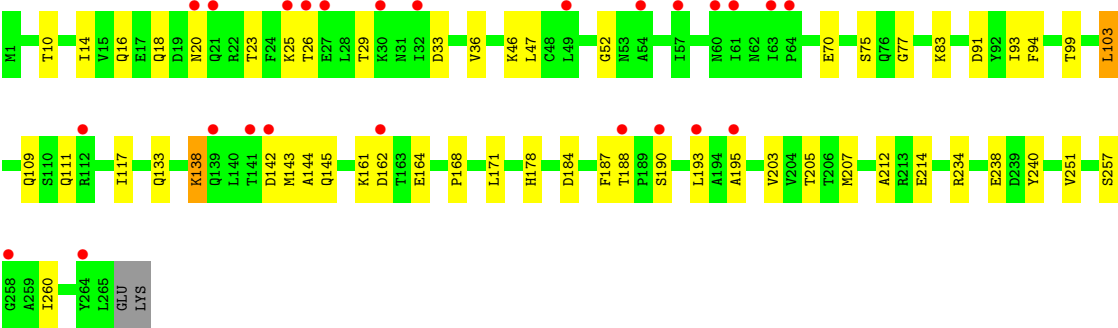


- Molecule 1: Type II pantothenate kinase



- Molecule 1: Type II pantothenate kinase





## 4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	72.80Å 56.72Å 133.62Å 90.00° 99.81° 90.00°	Depositor
Resolution (Å)	44.49 – 3.00 44.49 – 3.00	Depositor EDS
% Data completeness (in resolution range)	97.5 (44.49-3.00) 97.5 (44.49-3.00)	Depositor EDS
$R_{merge}$	(Not available)	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	2.24 (at 3.01Å)	Xtriage
Refinement program	REFMAC	Depositor
R, $R_{free}$	0.228 , 0.280 (Not available) , 0.271	Depositor DCC
$R_{free}$ test set	1046 reflections (4.90%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	36.7	Xtriage
Anisotropy	0.822	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.35 , 60.8	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.48$ , $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.91	EDS
Total number of atoms	8361	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	42.0	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 24.54 % 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 3.7597e-03. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

<sup>1</sup>Intensities estimated from amplitudes.

<sup>2</sup>Theoretical 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: ADP, 27Q

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	0.90	0/2066	1.50	19/2801 (0.7%)
1	B	0.91	0/2067	1.52	26/2801 (0.9%)
1	C	0.88	0/2072	1.49	24/2808 (0.9%)
1	D	0.87	0/2058	1.51	27/2789 (1.0%)
All	All	0.89	0/8263	1.51	96/11199 (0.9%)

There are no bond length outliers.

The worst 5 of 96 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	20	ASN	CA-CB-CG	8.50	121.10	112.60
1	C	99	THR	CA-C-N	7.87	128.43	121.82
1	C	99	THR	C-N-CA	7.87	128.43	121.82
1	B	260	ILE	N-CA-C	-7.65	103.40	110.82
1	D	99	THR	CA-C-N	7.14	127.82	121.82

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	A	2031	0	2010	19	0
1	B	2032	0	2019	26	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	C	2037	0	2021	22	0
1	D	2023	0	2013	18	0
2	A	27	0	12	0	0
2	B	27	0	12	2	0
2	C	27	0	12	4	0
2	D	27	0	12	1	0
3	A	21	3	29	1	0
3	B	21	3	29	0	0
3	C	21	3	29	0	0
3	D	21	3	29	0	0
4	A	7	0	0	0	0
4	B	14	0	0	0	0
4	C	8	0	0	0	0
4	D	5	0	0	0	0
All	All	8349	12	8227	76	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 5.

The worst 5 of 76 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:B:14:ILE:HB	1:B:25:LYS:HB3	1.63	0.80
1:A:14:ILE:HB	1:A:25:LYS:HB3	1.76	0.68
1:A:252:GLU:HG2	1:B:252:GLU:HA	1.77	0.67
1:A:96:ASN:HD22	1:A:223:ILE:HG13	1.63	0.63
1:C:42:GLN:HE21	1:C:44:ILE:HD11	1.66	0.60

There are no symmetry-related clashes.

## 5.3 Torsion angles [i](#)

### 5.3.1 Protein backbone [i](#)

There are no protein backbone outliers to report in this entry.

### 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	213/217 (98%)	194 (91%)	19 (9%)	9	34
1	B	151/217 (70%)	135 (89%)	16 (11%)	6	27
1	C	213/217 (98%)	196 (92%)	17 (8%)	11	38
1	D	212/217 (98%)	200 (94%)	12 (6%)	18	52
All	All	789/868 (91%)	725 (92%)	64 (8%)	11	38

5 of 64 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	D	103	LEU
1	D	138	LYS
1	B	91	ASP
1	B	83	LYS
1	D	164	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 23 such sidechains are listed below:

Mol	Chain	Res	Type
1	C	76	GLN
1	D	20	ASN
1	D	16	GLN
1	D	34	GLN
1	B	21	GLN

### 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

8 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
3	27Q	B	302	-	19,20,25	1.58	1 (5%)	24,25,33	1.02	1 (4%)
3	27Q	C	302	-	19,20,25	2.17	2 (10%)	24,25,33	1.22	2 (8%)
2	ADP	D	301	-	28,29,29	0.46	0	43,45,45	0.84	1 (2%)
3	27Q	A	302	-	19,20,25	1.50	2 (10%)	24,25,33	1.03	2 (8%)
2	ADP	C	301	-	28,29,29	0.27	0	43,45,45	0.68	1 (2%)
3	27Q	D	302	-	19,20,25	1.37	2 (10%)	24,25,33	0.86	0
2	ADP	A	301	-	28,29,29	0.41	0	43,45,45	0.66	0
2	ADP	B	301	-	28,29,29	0.42	0	43,45,45	0.53	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	27Q	B	302	-	-	7/24/24/31	-
3	27Q	C	302	-	-	5/24/24/31	-
2	ADP	D	301	-	-	4/16/32/32	0/3/3/3
3	27Q	A	302	-	-	6/24/24/31	-
2	ADP	C	301	-	-	2/16/32/32	0/3/3/3
3	27Q	D	302	-	-	4/24/24/31	-
2	ADP	A	301	-	-	4/16/32/32	0/3/3/3
2	ADP	B	301	-	-	3/16/32/32	0/3/3/3

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

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	302	27Q	CAW-CAV	8.95	1.61	1.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	302	27Q	CAW-CAV	6.28	1.59	1.55
3	A	302	27Q	CAW-CAV	5.20	1.58	1.55
3	D	302	27Q	CAW-CAV	4.68	1.58	1.55
3	C	302	27Q	OAG-CAV	2.13	1.46	1.42

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

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	D	301	ADP	O2B-PB-O3A	3.18	115.29	104.64
3	A	302	27Q	OAG-CAV-CAW	2.92	114.55	109.38
3	C	302	27Q	CAB-CAW-CAP	-2.60	103.74	108.80
3	C	302	27Q	CAB-CAW-CAV	2.31	114.87	109.59
3	A	302	27Q	CAN-CAO-CAT	-2.31	108.55	112.39

There are no chirality outliers.

5 of 35 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	B	301	ADP	C2'-C1'-N9-C4
3	A	302	27Q	OAG-CAV-CAW-CAB
3	A	302	27Q	OAG-CAV-CAW-CAC
3	B	302	27Q	OAG-CAV-CAW-CAP
3	B	302	27Q	OAG-CAV-CAW-CAB

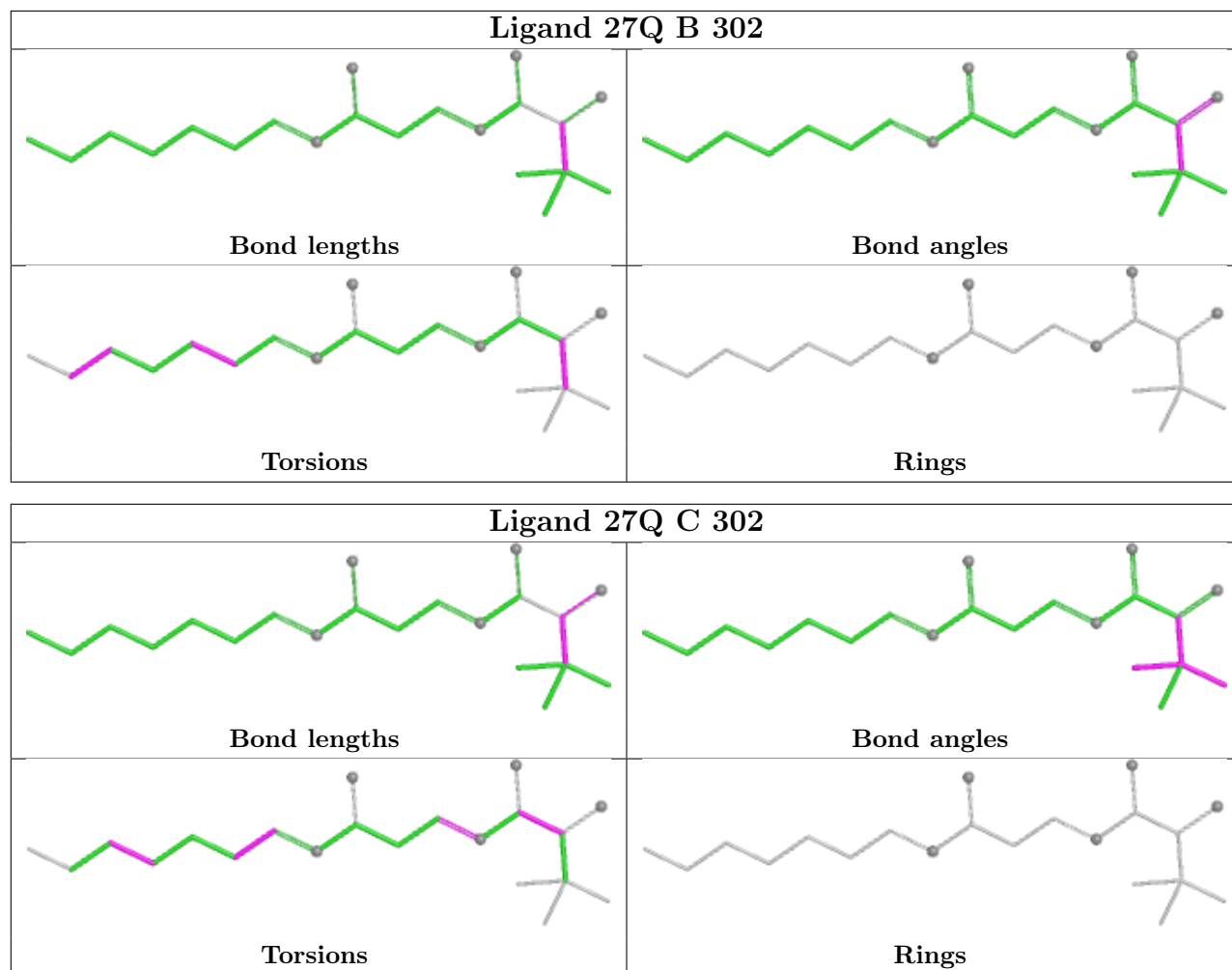
There are no ring outliers.

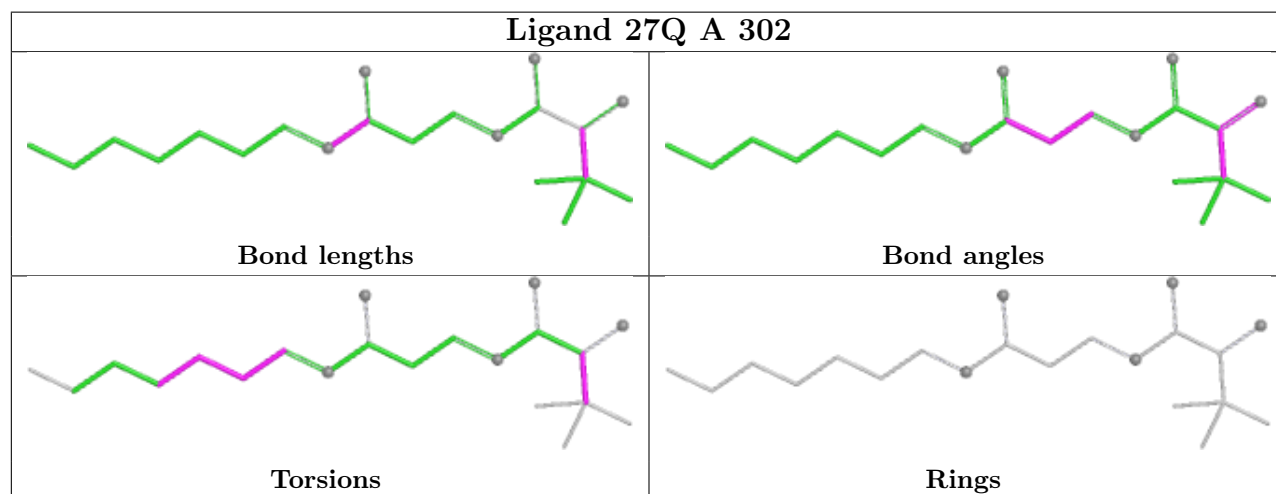
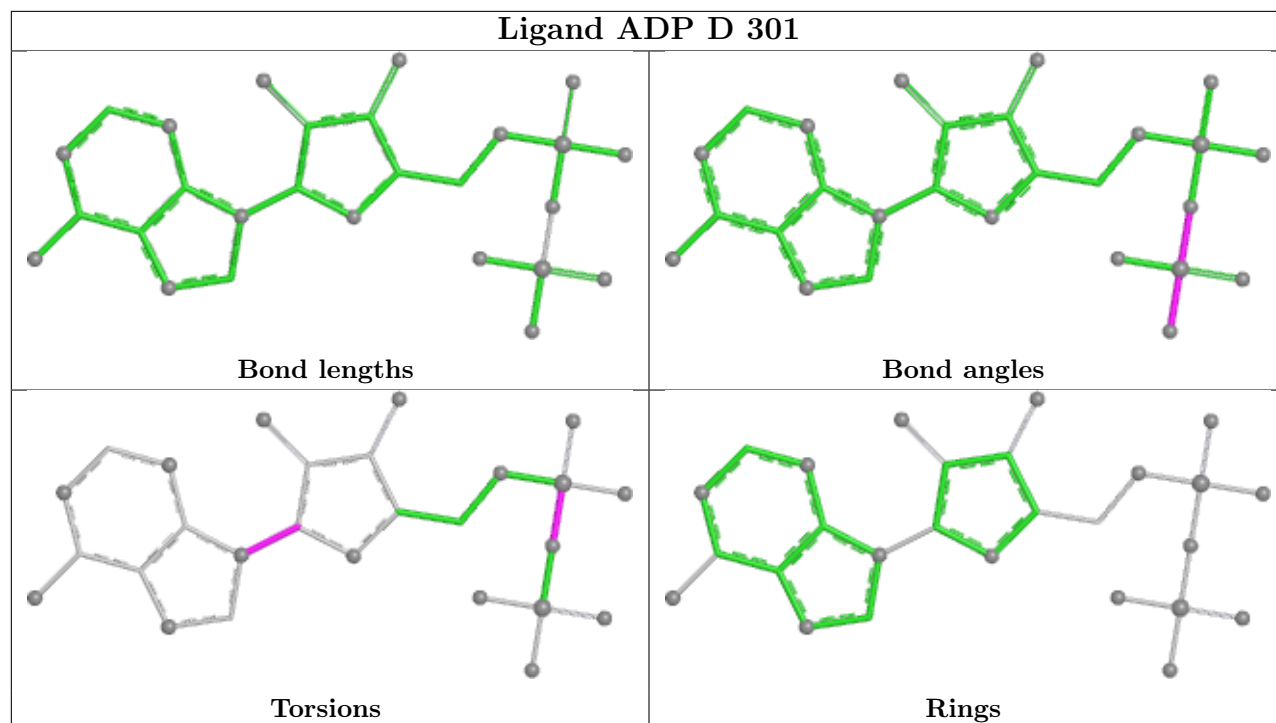
4 monomers are involved in 8 short contacts:

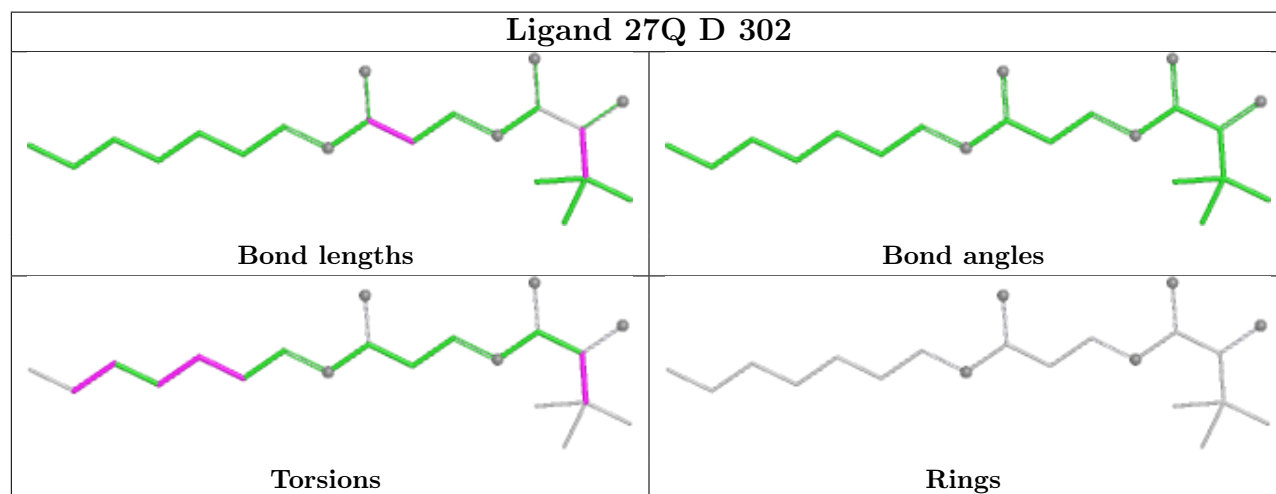
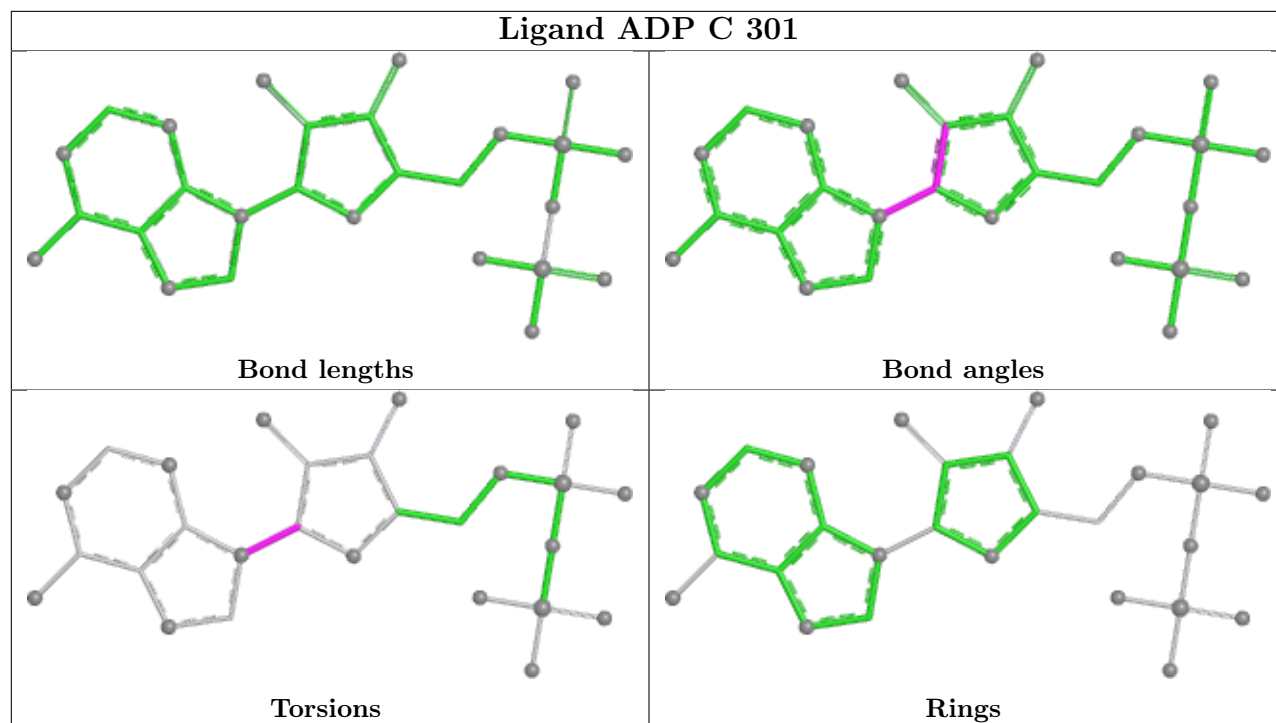
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	D	301	ADP	1	0
3	A	302	27Q	1	0
2	C	301	ADP	4	0
2	B	301	ADP	2	0

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

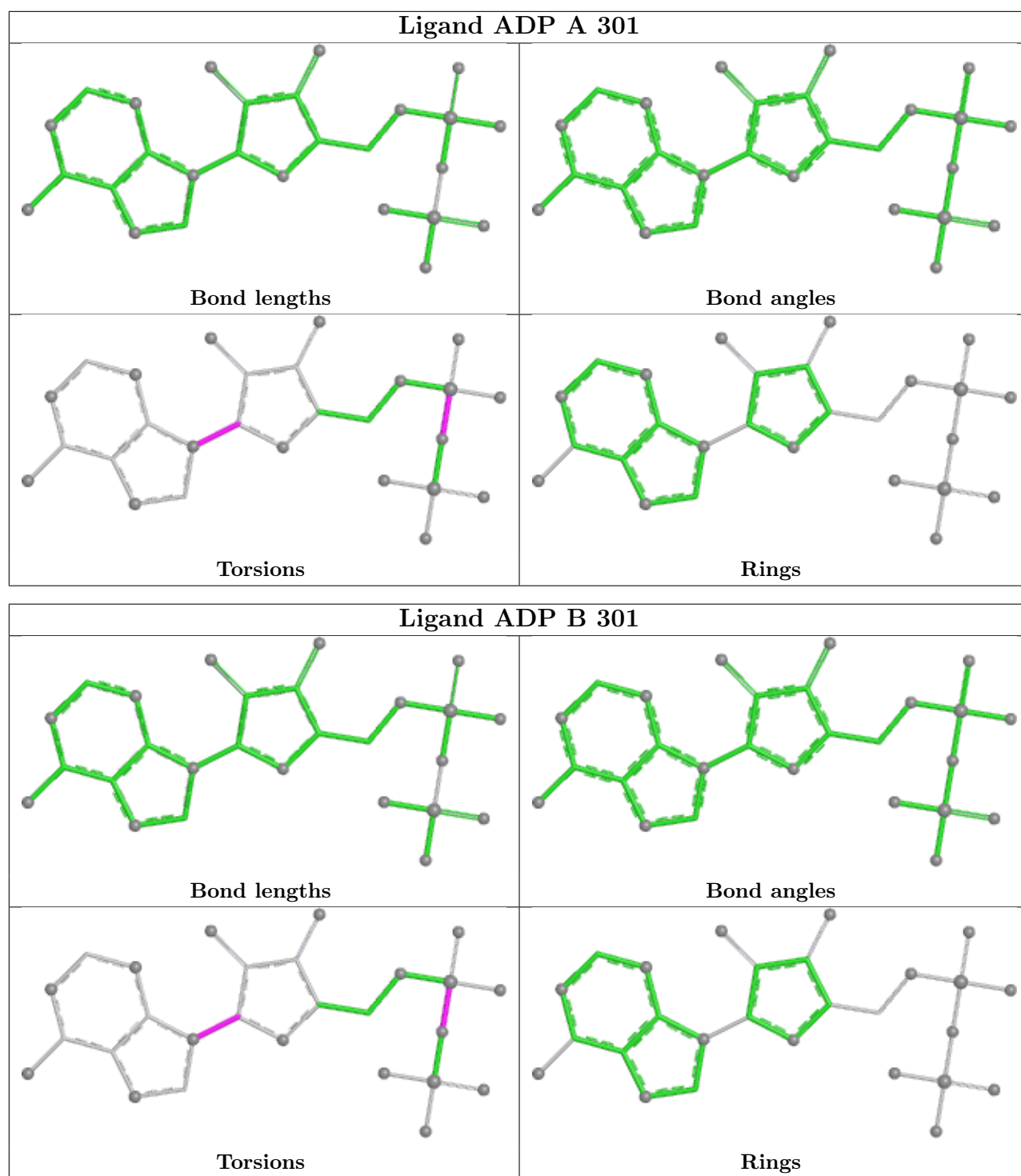
any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.











## 5.7 Other polymers [i](#)

There are no such residues in this entry.

## 5.8 Polymer linkage issues ⓘ

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<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
1	A	266/267 (99%)	0.80	14 (5%) 32 16	14, 37, 65, 78	0
1	B	266/267 (99%)	0.82	15 (5%) 30 15	14, 40, 64, 84	0
1	C	267/267 (100%)	0.74	13 (4%) 35 18	9, 38, 70, 89	0
1	D	265/267 (99%)	0.90	25 (9%) 14 7	14, 41, 86, 101	0
All	All	1064/1068 (99%)	0.81	67 (6%) 26 13	9, 39, 73, 101	0

The worst 5 of 67 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	185	ALA	3.9
1	C	65	ALA	3.5
1	A	190	SER	3.4
1	B	91	ASP	3.3
1	C	135	THR	3.1

### 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](#)

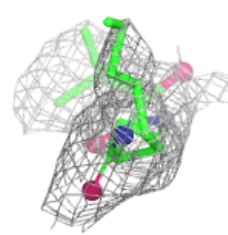
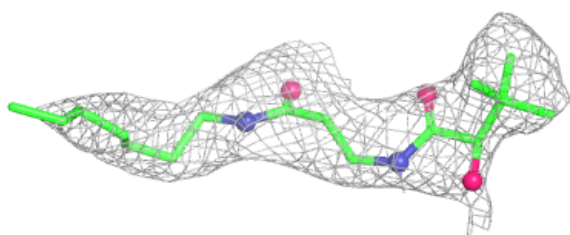
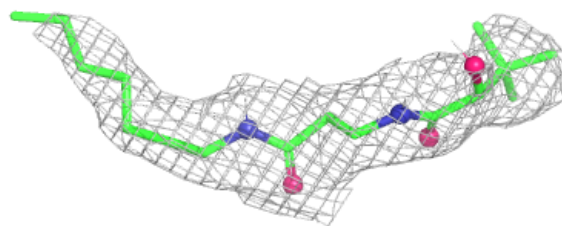
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95<sup>th</sup> percentile and maximum values of B factors of atoms in the group. The column labelled ‘Q < 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
3	27Q	C	302	21/26	0.86	0.16	32,37,44,45	0
3	27Q	D	302	21/26	0.88	0.14	35,38,46,47	0
2	ADP	A	301	27/27	0.89	0.13	45,51,57,58	0
3	27Q	B	302	21/26	0.89	0.13	22,26,32,34	0
2	ADP	B	301	27/27	0.90	0.14	44,56,59,61	0
2	ADP	D	301	27/27	0.91	0.12	36,43,46,47	0
2	ADP	C	301	27/27	0.91	0.10	20,26,39,42	0
3	27Q	A	302	21/26	0.92	0.13	6,19,36,38	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.

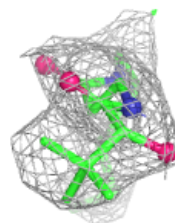
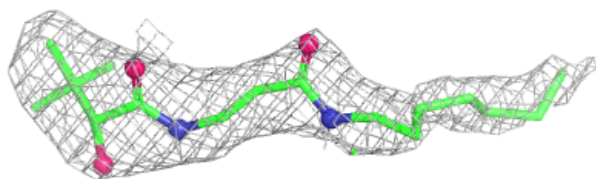
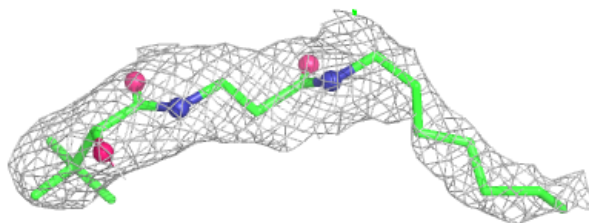
**Electron density around 27Q C 302:**

2mF<sub>o</sub>-DF<sub>c</sub> (at 0.7 rmsd) in gray  
mF<sub>o</sub>-DF<sub>c</sub> (at 3 rmsd) in purple (negative)  
and green (positive)

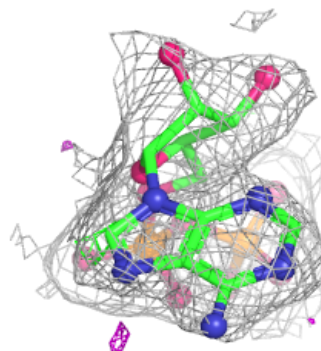
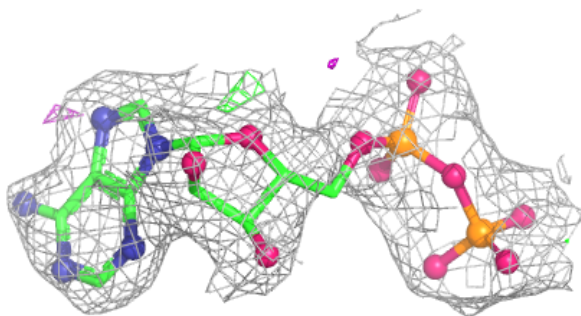
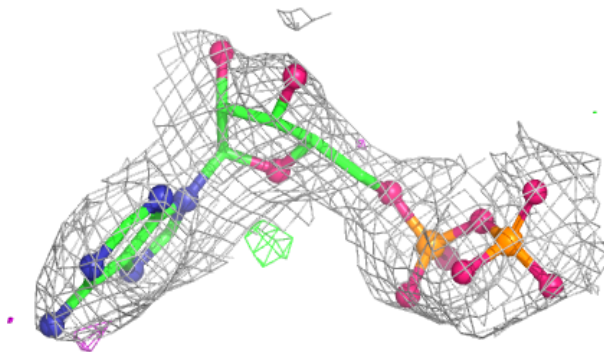


**Electron density around 27Q D 302:**

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

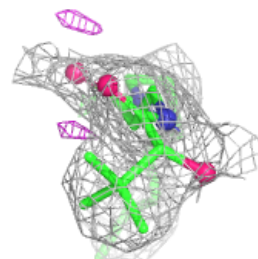
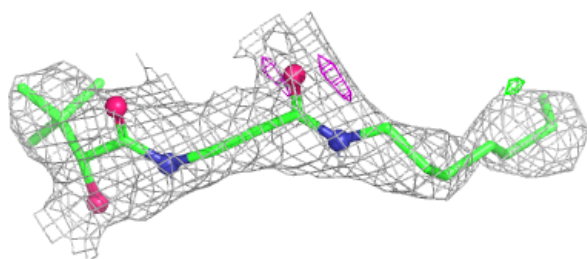
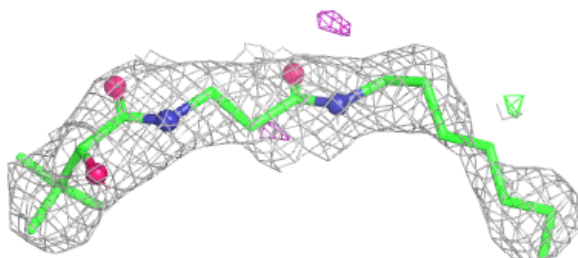
**Electron density around ADP A 301:**

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

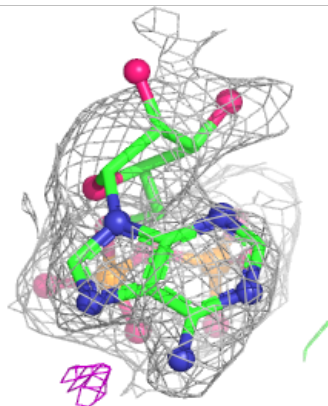
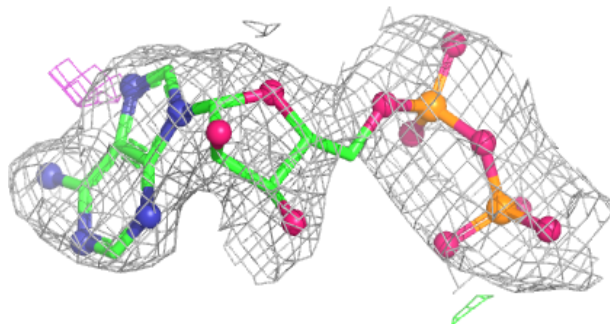
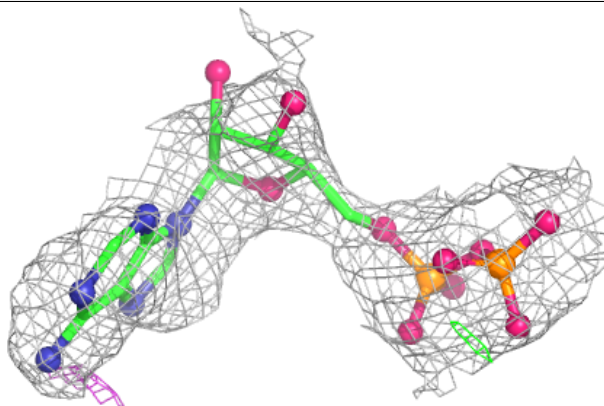


**Electron density around 27Q B 302:**

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

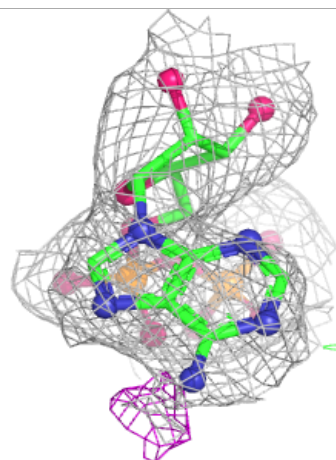
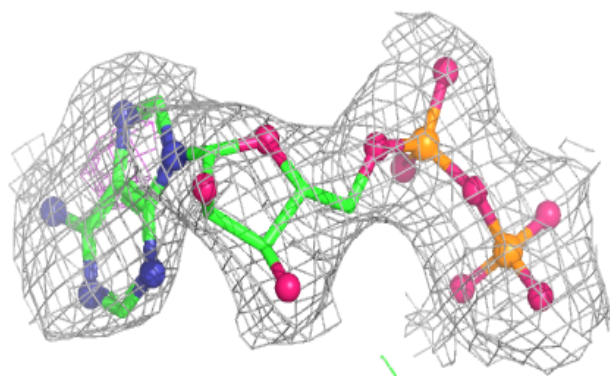
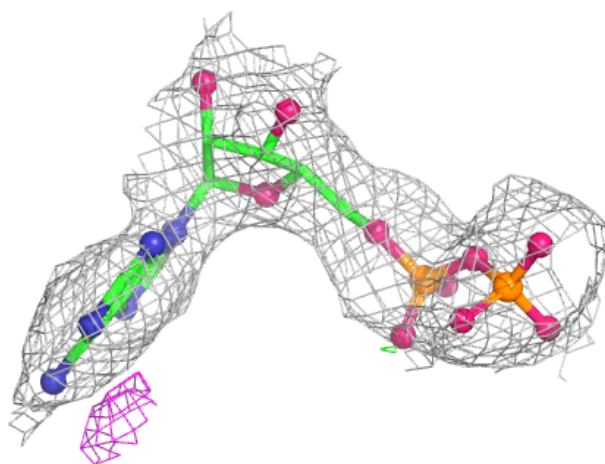
**Electron density around ADP B 301:**

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



**Electron density around ADP D 301:**

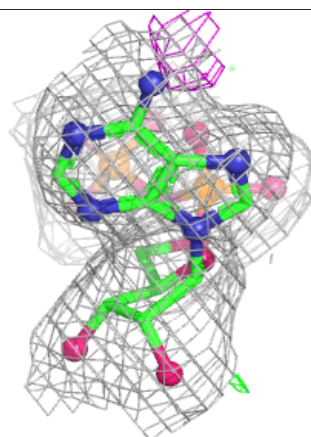
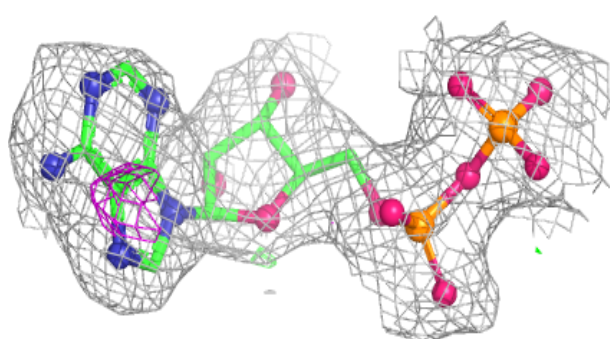
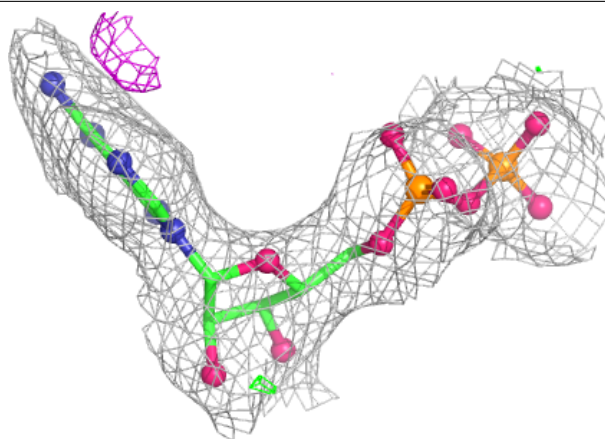
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



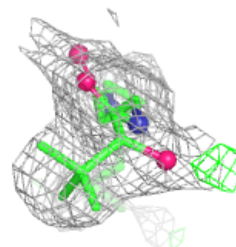
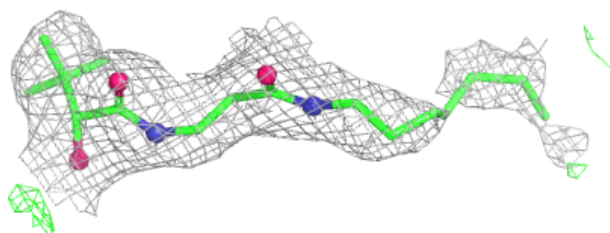
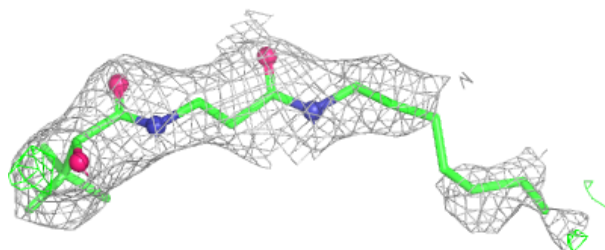


**Electron density around ADP C 301:**

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

**Electron density around 27Q A 302:**

$2mF_o-DF_c$  (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.