



# wwPDB X-ray Structure Validation Summary Report ⓘ

Feb 4, 2025 – 06:14 PM EST

PDB ID : 1NF7  
Title : Ternary complex of the human type II Inosine Monophosphate Dehydrogenase with Ribavirin Monophosphate and C2-Mycophenolic Adenine Dinucleotide  
Authors : Risal, D.; Strickler, M.D.; Goldstein, B.M.  
Deposited on : 2002-12-13  
Resolution : 2.65 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	:	4.02b-467
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	1.21
EDS	:	3.0
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
CCP4	:	9.0.004 (Gargrove)
Density-Fitness	:	1.0.11
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.40

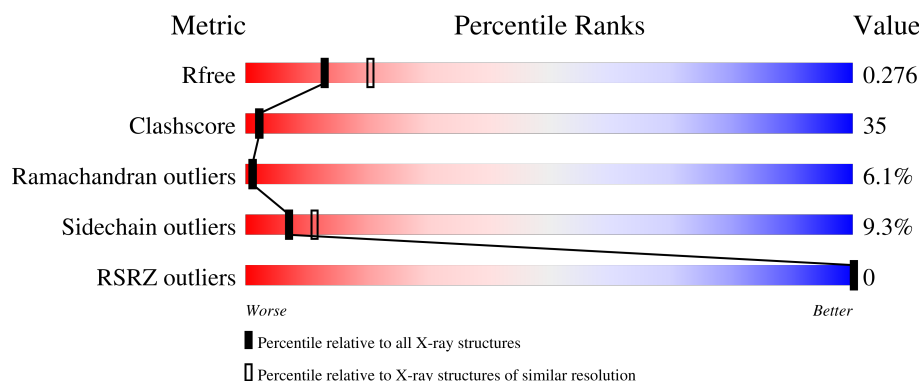
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

## *X-RAY DIFFRACTION*

The reported resolution of this entry is 2.65 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))
$R_{free}$	164625	1003 (2.66-2.66)
Clashscore	180529	1063 (2.66-2.66)
Ramachandran outliers	177936	1052 (2.66-2.66)
Sidechain outliers	177891	1052 (2.66-2.66)
RSRZ outliers	164620	1003 (2.66-2.66)

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	514	<div> <div style="width: 100%; height: 10px; background: linear-gradient(to right, red 12%, orange 7%, yellow 39%, green 42%);"></div> <div style="display: flex; justify-content: space-between; padding: 0 5px;"> <span>42%</span> <span>39%</span> <span>7%</span> <span>12%</span> </div> </div>
1	B	514	<div> <div style="width: 100%; height: 10px; background: linear-gradient(to right, red 0%, orange 8%, yellow 39%, green 41%);"></div> <div style="display: flex; justify-content: space-between; padding: 0 5px;"> <span>41%</span> <span>39%</span> <span>8%</span> <span>12%</span> </div> </div>

## 2 Entry composition [i](#)

There are 6 unique types of molecules in this entry. The entry contains 7114 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.

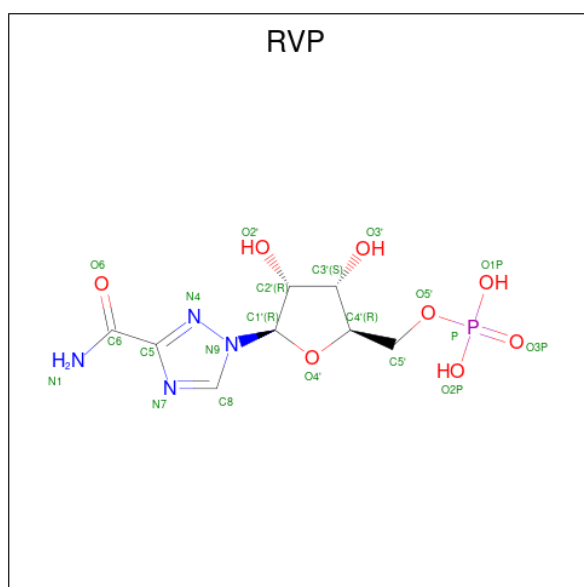
- Molecule 1 is a protein called Inosine-5'-monophosphate dehydrogenase 2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	454	Total	C	N	O	S	0	0	0
			3440	2176	587	658	19			
1	B	454	Total	C	N	O	S	0	0	0
			3440	2176	587	658	19			

- Molecule 2 is POTASSIUM ION (three-letter code: K) (formula: K).

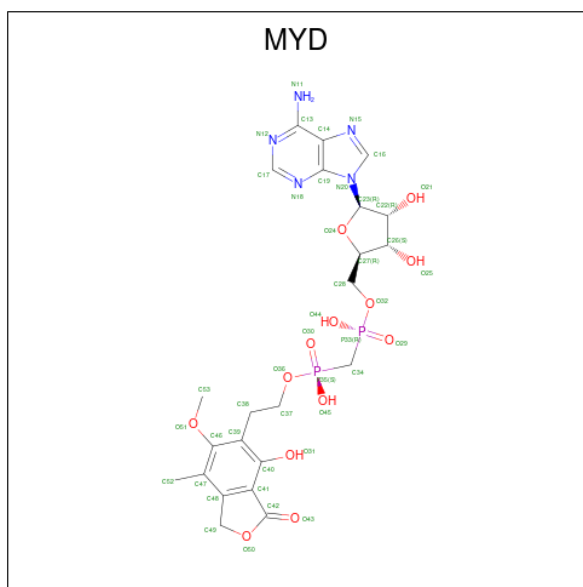
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	1	Total	K	0	0
			1	1		
2	B	1	Total	K	0	0
			1	1		

- Molecule 3 is RIBAVIRIN MONOPHOSPHATE (three-letter code: RVP) (formula: C<sub>8</sub>H<sub>13</sub>N<sub>4</sub>O<sub>8</sub>P).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	A	1	Total	C	N	O	P	0	0
			21	8	4	8	1		
3	B	1	Total	C	N	O	P	0	0
			21	8	4	8	1		

- Molecule 4 is {[5-(6-AMINO-PURIN-7-YL)-3,4-DIHYDROXY-TETRAHYDRO-FURAN-2-YLMETHOXY]-HYDROXY-PHOSPHORYLMETHYL}-PHOSPHONIC ACID MONO-[2-(4-HYDROXY-6-METHOXY-7-METHYL-3-OXO-1,3-DIHYDRO-ISOBENZOFURAN-5-YL)-ETHYL] ESTER (three-letter code: MYD) (formula: C<sub>23</sub>H<sub>29</sub>N<sub>5</sub>O<sub>13</sub>P<sub>2</sub>).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
4	A	1	Total	C	N	O	P	0	0
			43	23	5	13	2		
4	B	1	Total	C	N	O	P	0	0
			43	23	5	13	2		

- Molecule 5 is UNKNOWN LIGAND (three-letter code: UNL) (formula: ).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	B	11	Total	C	0	0
			11	11		

- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	46	Total	O	0	0
			46	46		

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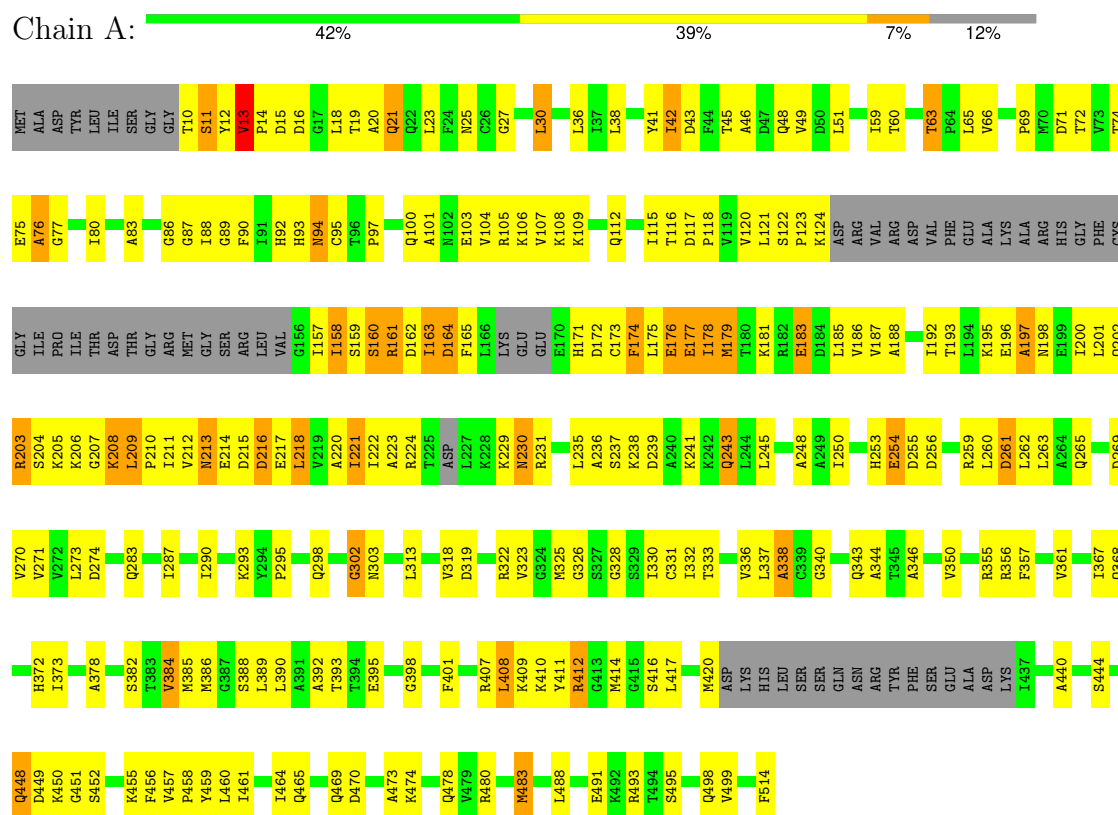
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	B	47	Total	O	0	0
			47	47		

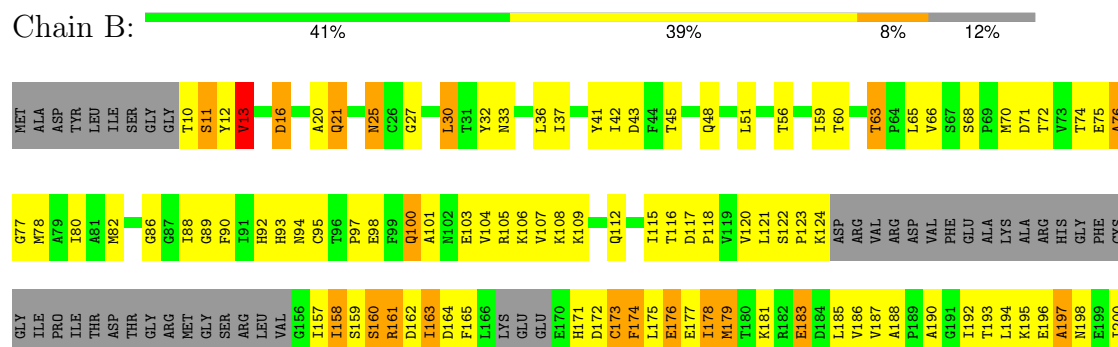
### 3 Residue-property plots

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: Inosine-5'-monophosphate dehydrogenase 2



#### • Molecule 1: Inosine-5'-monophosphate dehydrogenase 2



L201	Q202	R203	S204	K206	G207	K208	L209	P210	I211	V212	N213	E214	D215	D216	E217	L218		I221	I222	A223	R224	T225	ASP	L227	K228	K229	N230	R231	D232	Y233	P234	L235	A236	S237	K238	D239	A240	K241	K242	Q243	L244	L245		A248	A249	I250	G251	T252	H253	E254	D255	D256	K257	Y258	R259	L260	D261	L262	
L263	A264	Q265		V270	V271	V272	L273	D274		Q277		F282	Q283		M286	I287	K288	Y289		K293	Y294	P295	N296	L297	Q298		G302	N303	V304	V305	T306		L313		V318	D319		R322	V323		G326	S327	G328	S329	I330	C331	I332	T333		V336	L337	A338		K349	V350	S351	E352		R355
R356		V361		Q368	N369	V370	G371	H372	I373		A376	I377	A378	L379		V384	M385	M386	G387	S388	L389	L390	A391	A392	T393	T394	E395		G398	F399	Y400	F401		R407	I408	K409	K410	Y411	R412	G413	M414		L417		M420	ASP	LYS	HIS	LEU	SER	SER	GLN	ASN	ARG	TYR	PHE	SER	GLU	ALA
ASP	LYS	I437	K438	V439	A440		V443	S444		V447	Q448	D449	K450	G451		K455	F456	V457	P458	Y459	L460	I461		I464	Q465	H466	S467	C468	Q469	D470		K474		Q478	V479	R480		M483	Y484	S485		L488		E491	R492	R493		F514											

## 4 Data and refinement statistics

Property	Value	Source
Space group	I 4	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	146.58Å 146.58Å 128.92Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	41.24 – 2.65 41.24 – 2.65	Depositor EDS
% Data completeness (in resolution range)	64.7 (41.24-2.65) 75.9 (41.24-2.65)	Depositor EDS
$R_{merge}$	0.04	Depositor
$R_{sym}$	0.04	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	0.59 (at 2.65Å)	Xtriage
Refinement program	CNS 1.1	Depositor
R, $R_{free}$	0.238 , 0.277 0.258 , 0.276	Depositor DCC
$R_{free}$ test set	2984 reflections (9.88%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	40.8	Xtriage
Anisotropy	0.560	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.34 , 55.7	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.48$ , $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	0.429 for -k,-h,-l	Xtriage
$F_o, F_c$ correlation	0.93	EDS
Total number of atoms	7114	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	53.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.54% of the height of the origin peak. No significant pseudotranslation is detected.*

<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: K, MYD, RVP, UNL

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	0.58	0/3489	0.63	0/4705
1	B	0.58	1/3489 (0.0%)	0.64	1/4705 (0.0%)
All	All	0.58	1/6978 (0.0%)	0.63	1/9410 (0.0%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	437	ILE	CG1-CD1	5.48	1.88	1.50

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	437	ILE	CB-CG1-CD1	-8.72	89.47	113.90

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	3440	0	3498	243	0
1	B	3440	0	3498	247	0
2	A	1	0	0	0	0
2	B	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	A	21	0	11	1	0
3	B	21	0	11	1	0
4	A	43	0	25	4	0
4	B	43	0	25	5	0
5	B	11	0	0	1	0
6	A	46	0	0	2	0
6	B	47	0	0	6	0
All	All	7114	0	7068	496	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 35.

The worst 5 of 496 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:437:ILE:CG1	1:B:437:ILE:CD1	1.88	1.52
1:B:179:MET:HE1	1:B:181:LYS:HE2	1.38	1.05
1:A:157:ILE:HD12	1:A:157:ILE:H	1.27	0.99
1:B:437:ILE:CD1	1:B:437:ILE:CB	2.41	0.98
1:B:270:VAL:HG12	1:B:298:GLN:HB2	1.45	0.97

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	A	444/514 (86%)	348 (78%)	69 (16%)	27 (6%)	<b>1</b>	<b>1</b>
1	B	444/514 (86%)	349 (79%)	68 (15%)	27 (6%)	<b>1</b>	<b>1</b>
All	All	888/1028 (86%)	697 (78%)	137 (15%)	54 (6%)	<b>1</b>	<b>1</b>

5 of 54 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	76	ALA
1	A	116	THR
1	A	160	SER
1	A	197	ALA
1	A	216	ASP

### 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	370/420 (88%)	334 (90%)	36 (10%)	6	10
1	B	370/420 (88%)	337 (91%)	33 (9%)	8	12
All	All	740/840 (88%)	671 (91%)	69 (9%)	7	11

5 of 69 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	255	ASP
1	B	277	GLN
1	B	412	ARG
1	A	243	GLN
1	A	231	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 32 such sidechains are listed below:

Mol	Chain	Res	Type
1	B	372	HIS
1	B	441	GLN
1	A	466	HIS
1	A	441	GLN
1	B	466	HIS

### 5.3.3 RNA ⓘ

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 17 ligands modelled in this entry, 2 are monoatomic and 11 are unknown - leaving 4 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	MYD	B	702	-	39,47,47	2.17	10 (25%)	49,72,72	2.35	21 (42%)
4	MYD	A	701	-	39,47,47	2.24	10 (25%)	49,72,72	2.39	21 (42%)
3	RVP	B	601	-	18,22,22	2.28	4 (22%)	22,33,33	1.58	4 (18%)
3	RVP	A	600	-	18,22,22	2.22	4 (22%)	22,33,33	1.51	4 (18%)

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	MYD	B	702	-	-	2/21/50/50	0/5/5/5
4	MYD	A	701	-	-	2/21/50/50	0/5/5/5
3	RVP	B	601	-	-	0/6/30/30	0/2/2/2
3	RVP	A	600	-	-	0/6/30/30	0/2/2/2

The worst 5 of 28 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	601	RVP	O4'-C1'	6.69	1.49	1.40
3	A	600	RVP	O4'-C1'	6.13	1.48	1.40
4	A	701	MYD	O50-C42	5.76	1.43	1.36
4	A	701	MYD	C49-C48	5.60	1.56	1.50
4	A	701	MYD	O24-C23	5.34	1.47	1.40

The worst 5 of 50 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	B	702	MYD	N18-C17-N12	-6.64	119.66	128.67
4	A	701	MYD	N18-C17-N12	-6.45	119.92	128.67
4	A	701	MYD	C22-C26-C27	-4.84	93.26	102.61
4	A	701	MYD	C27-O24-C23	-4.83	105.50	109.92
4	A	701	MYD	O50-C49-C48	-4.74	100.81	104.57

There are no chirality outliers.

All (4) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	A	701	MYD	C39-C46-O51-C53
4	B	702	MYD	C39-C46-O51-C53
4	A	701	MYD	P33-C34-P35-O30
4	B	702	MYD	P33-C34-P35-O30

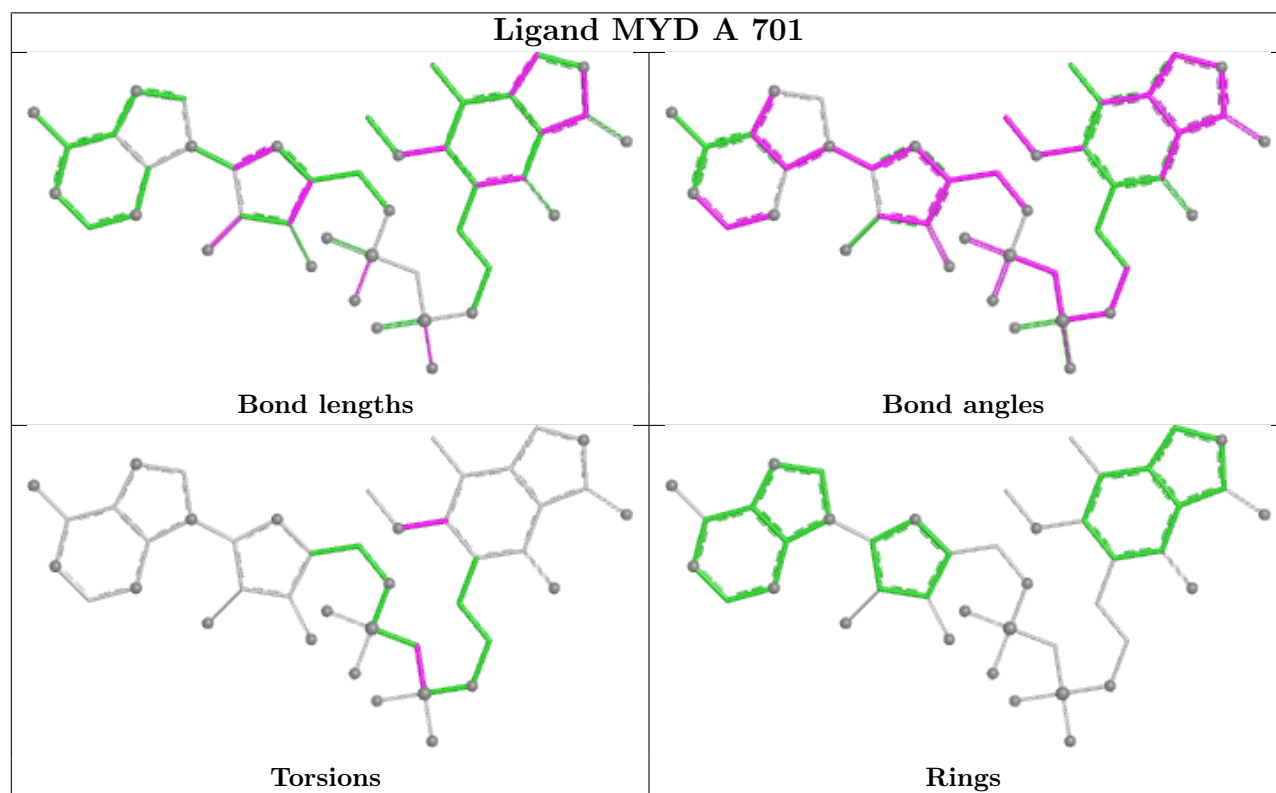
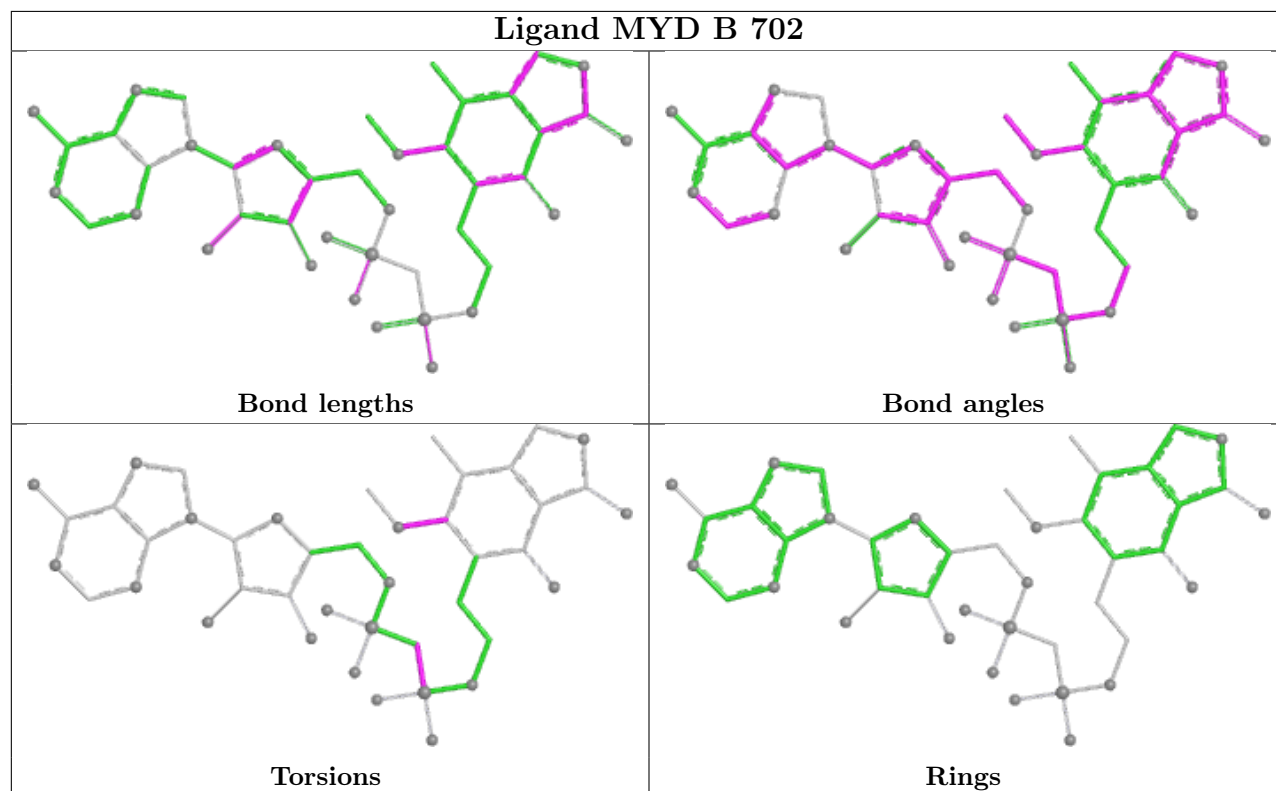
There are no ring outliers.

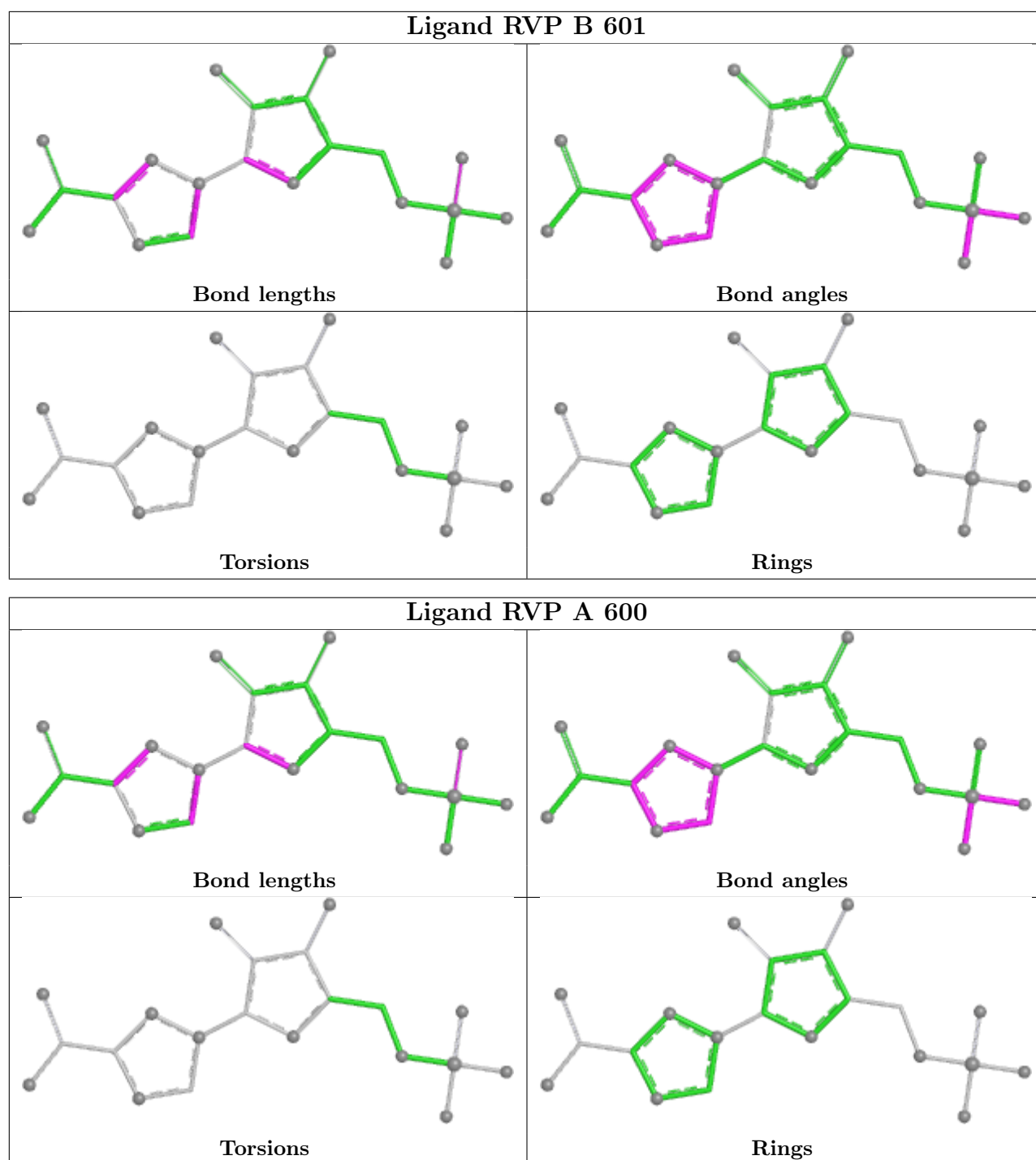
4 monomers are involved in 11 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	B	702	MYD	5	0
4	A	701	MYD	4	0
3	B	601	RVP	1	0
3	A	600	RVP	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 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, 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	454/514 (88%)	-1.32	0 100 100	12, 41, 116, 140	0
1	B	454/514 (88%)	-1.34	0 100 100	10, 41, 110, 143	0
All	All	908/1028 (88%)	-1.33	0 100 100	10, 41, 114, 143	0

There are no RSRZ outliers to report.

### 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 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<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(Å <sup>2</sup> )	Q<0.9
5	UNL	B	806	1/-	0.93	0.10	20,20,20,20	0
5	UNL	B	803	1/-	0.97	0.05	20,20,20,20	0
5	UNL	B	801	1/-	0.98	0.06	20,20,20,20	0
5	UNL	B	804	1/-	0.98	0.05	20,20,20,20	0
5	UNL	B	802	1/-	0.98	0.06	20,20,20,20	0
5	UNL	B	807	1/-	0.98	0.12	20,20,20,20	0
5	UNL	B	809	1/-	0.98	0.04	20,20,20,20	0

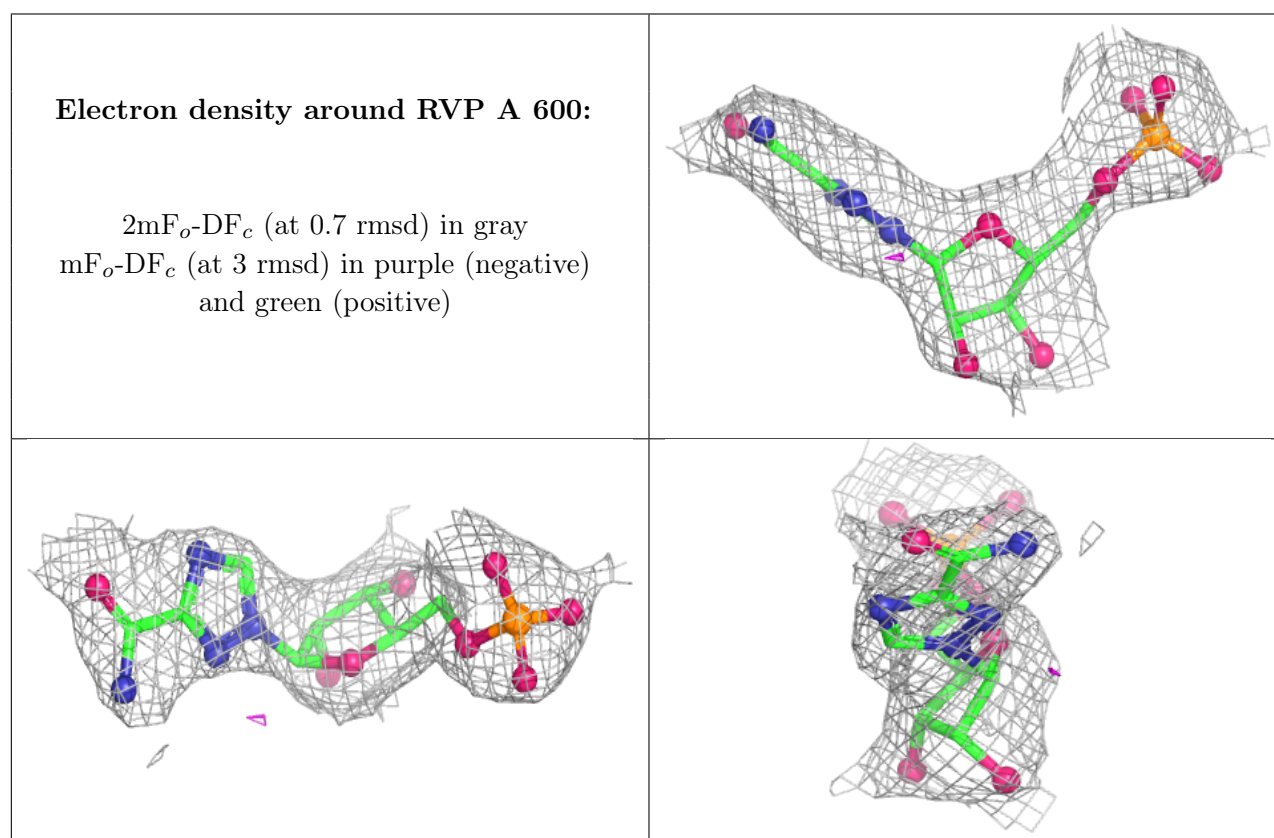
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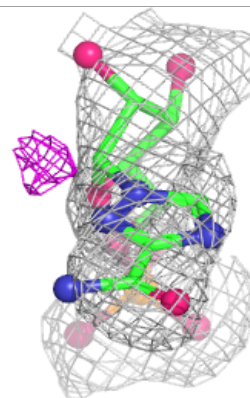
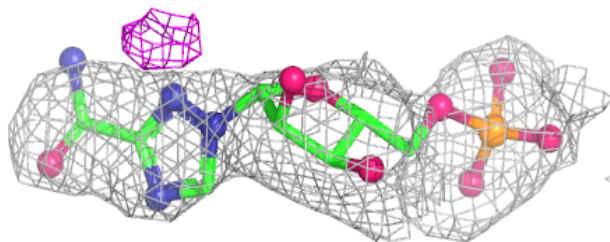
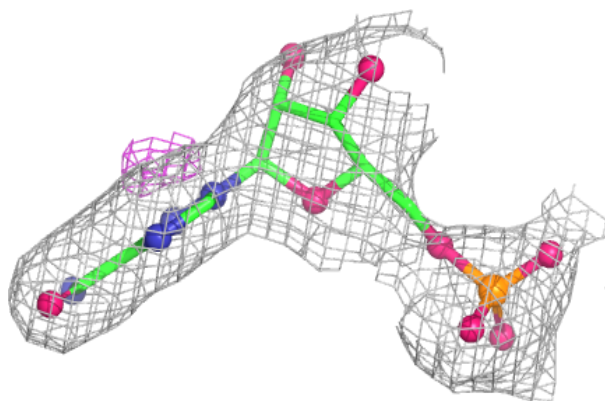
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
2	K	B	901	1/1	0.99	0.16	106,106,106,106	0
3	RVP	A	600	21/21	0.99	0.03	53,53,53,53	0
3	RVP	B	601	21/21	0.99	0.05	56,56,56,56	0
5	UNL	B	805	1/-	0.99	0.09	20,20,20,20	0
4	MYD	A	701	43/43	0.99	0.04	58,58,58,58	0
4	MYD	B	702	43/43	0.99	0.05	60,60,60,60	0
5	UNL	B	808	1/-	0.99	0.05	20,20,20,20	0
2	K	A	902	1/1	0.99	0.12	100,100,100,100	0
5	UNL	B	810	1/-	0.99	0.11	20,20,20,20	0
5	UNL	B	811	1/-	1.00	0.10	20,20,20,20	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.

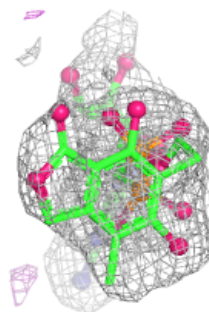
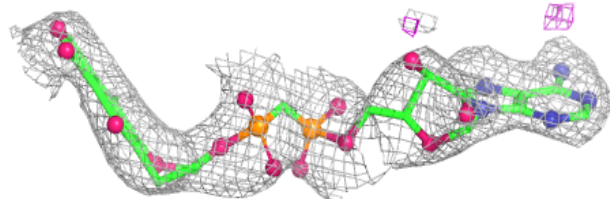
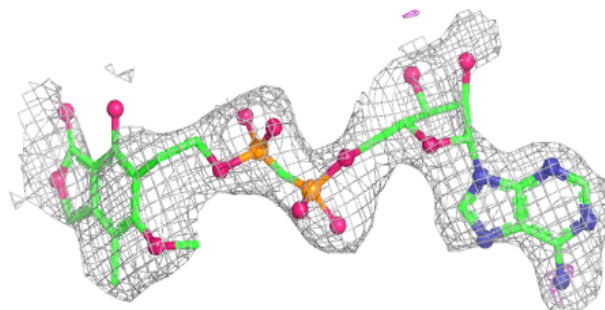


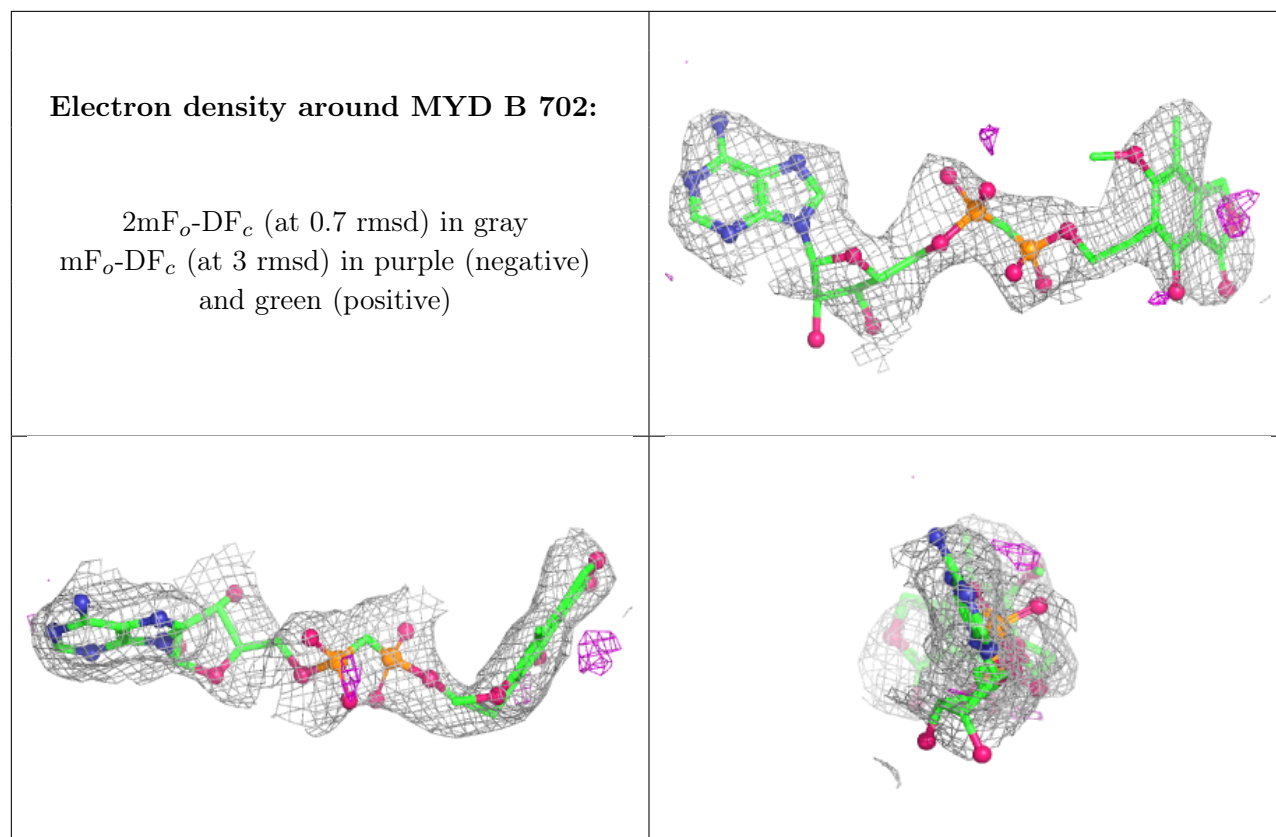
**Electron density around RVP B 601:**

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

**Electron density around MYD A 701:**

$2mF_o-DF_c$  (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.