



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 06:43 AM UTC

PDB ID : 6B4H / pdb_00006b4h
Title : Crystal structure of Chaetomium thermophilum Gle1 CTD-Nup42 GBM-IP6 complex
Authors : Lin, D.H.; Correia, A.R.; Cai, S.W.; Huber, F.M.; Jette, C.A.; Hoelz, A.
Deposited on : 2017-09-26
Resolution : 2.17 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

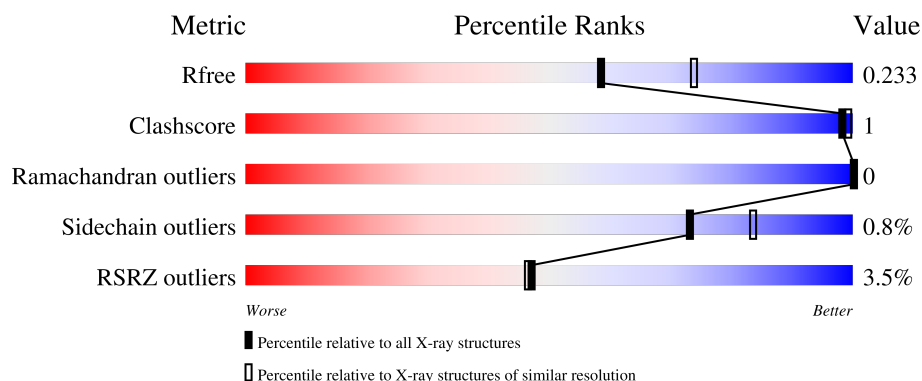
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.17 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	8975 (2.20-2.16)
Clashscore	190562	9786 (2.20-2.16)
Ramachandran outliers	187476	9664 (2.20-2.16)
Sidechain outliers	187428	9664 (2.20-2.16)
RSRZ outliers	180081	8979 (2.20-2.16)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	B	73	0% 85% 15%
1	D	73	5% 88% 12%
2	A	318	3% 98% .
2	C	318	4% 97% .

2 Entry composition [i](#)

There are 6 unique types of molecules in this entry. The entry contains 12892 atoms, of which 6236 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 Nucleoporin AMO1.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	D	64	Total	C	H	N	O	S	0	0	0
			1011	336	483	88	101	3			
1	B	62	Total	C	H	N	O	S	0	0	0
			992	330	476	86	97	3			

There are 16 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
D	485	GLY	-	expression tag	UNP G0S381
D	486	PRO	-	expression tag	UNP G0S381
D	487	HIS	-	expression tag	UNP G0S381
D	488	MET	-	expression tag	UNP G0S381
D	489	GLY	-	expression tag	UNP G0S381
D	490	SER	-	expression tag	UNP G0S381
D	491	PRO	-	expression tag	UNP G0S381
D	492	GLU	-	expression tag	UNP G0S381
B	485	GLY	-	expression tag	UNP G0S381
B	486	PRO	-	expression tag	UNP G0S381
B	487	HIS	-	expression tag	UNP G0S381
B	488	MET	-	expression tag	UNP G0S381
B	489	GLY	-	expression tag	UNP G0S381
B	490	SER	-	expression tag	UNP G0S381
B	491	PRO	-	expression tag	UNP G0S381
B	492	GLU	-	expression tag	UNP G0S381

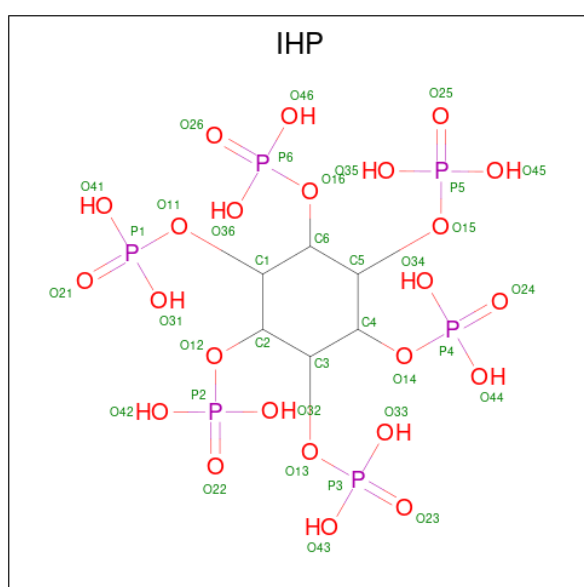
- Molecule 2 is a protein called Nucleoporin GLE1.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
2	A	318	Total	C	H	N	O	S	0	2	0
			5090	1600	2578	451	447	14			
2	C	318	Total	C	H	N	O	S	0	1	0
			5068	1594	2565	449	446	14			

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	212	GLY	-	expression tag	UNP G0S7F3
A	213	PRO	-	expression tag	UNP G0S7F3
A	214	HIS	-	expression tag	UNP G0S7F3
A	215	MET	-	expression tag	UNP G0S7F3
C	212	GLY	-	expression tag	UNP G0S7F3
C	213	PRO	-	expression tag	UNP G0S7F3
C	214	HIS	-	expression tag	UNP G0S7F3
C	215	MET	-	expression tag	UNP G0S7F3

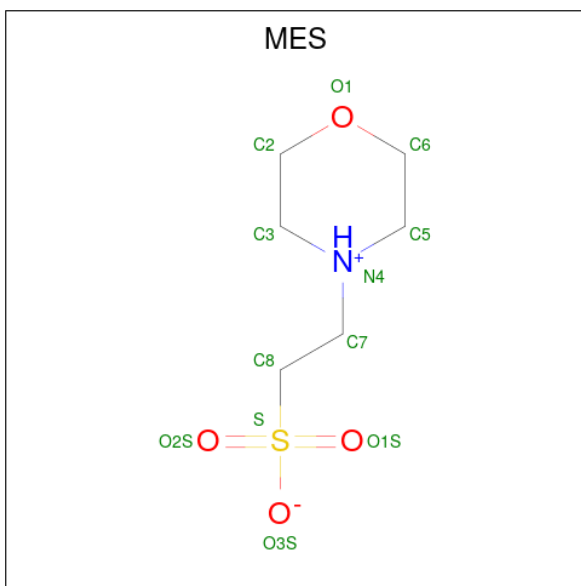
- Molecule 3 is INOSITOL HEXAKISPHOSPHATE (CCD ID: IHP) (formula: $C_6H_{18}O_{24}P_6$).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	A	1	Total 54	C 6	H 18	O 24	P 6	0	0
3	A	1	Total 54	C 6	H 18	O 24	P 6	0	0
3	A	1	Total 54	C 6	H 18	O 24	P 6	0	0
3	C	1	Total 54	C 6	H 18	O 24	P 6	0	0
3	C	1	Total 54	C 6	H 18	O 24	P 6	0	0
3	C	1	Total 54	C 6	H 18	O 24	P 6	0	0

- Molecule 4 is 2-(N-MORPHOLINO)-ETHANESULFONIC ACID (CCD ID: MES) (formula:

C₆H₁₃NO₄S).



Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
4	A	1	Total	C	H	N	O	S	0	0
			25	6	13	1	4	1		
4	C	1	Total	C	H	N	O	S	0	0
			25	6	13	1	4	1		

- Molecule 5 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	2	Total	Zn	0	0
			2	2		
5	C	2	Total	Zn	0	0
			2	2		

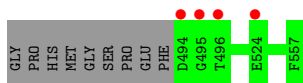
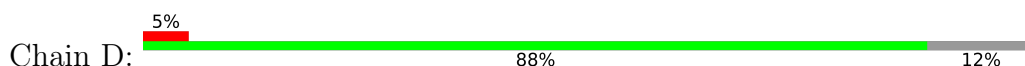
- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	D	26	Total	O	0	0
			26	26		
6	A	156	Total	O	0	1
			157	157		
6	B	23	Total	O	0	0
			23	23		
6	C	147	Total	O	0	3
			147	147		

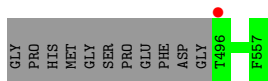
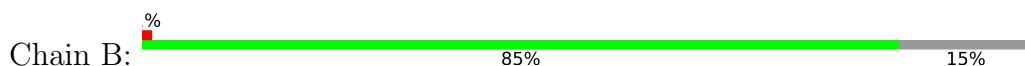
3 Residue-property plots [i](#)

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.

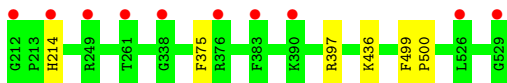
- Molecule 1: Nucleoporin AMO1



- Molecule 1: Nucleoporin AMO1



- Molecule 2: Nucleoporin GLE1



- Molecule 2: Nucleoporin GLE1



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	119.16Å 73.28Å 117.67Å 90.00° 94.20° 90.00°	Depositor
Resolution (Å)	34.85 – 2.17 34.85 – 2.17	Depositor EDS
% Data completeness (in resolution range)	98.0 (34.85-2.17) 98.4 (34.85-2.17)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.11	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.50 (at 2.18Å)	Xtriage
Refinement program	PHENIX (1.12_2829: ???)	Depositor
R, R_{free}	0.193 , 0.230 0.194 , 0.233	Depositor DCC
R_{free} test set	2609 reflections (4.86%)	wwPDB-VP
Wilson B-factor (Å ²)	41.5	Xtriage
Anisotropy	0.247	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 32.2	EDS
L-test for twinning ²	$\langle L \rangle = 0.51$, $\langle L^2 \rangle = 0.34$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	12892	wwPDB-VP
Average B, all atoms (Å ²)	56.0	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 74.77 % 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 1.4356e-06. 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 [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: MES, ZN, IHP

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	B	0.12	0/534	0.26	0/725
1	D	0.12	0/546	0.26	0/741
2	A	0.14	0/2563	0.31	0/3457
2	C	0.14	0/2554	0.31	0/3446
All	All	0.14	0/6197	0.30	0/8369

There are no bond length outliers.

There are no bond angle outliers.

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	B	516	476	476	0	0
1	D	528	483	483	0	0
2	A	2512	2578	2576	2	0
2	C	2503	2565	2564	3	0
3	A	108	54	18	1	0
3	C	108	54	18	1	0
4	A	12	13	13	0	0
4	C	12	13	13	0	0
5	A	2	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	C	2	0	0	0	0
6	A	157	0	0	2	0
6	B	23	0	0	0	0
6	C	147	0	0	0	0
6	D	26	0	0	0	0
All	All	6656	6236	6161	7	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 1.

All (7) 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)
3:A:602:IHP:O34	6:A:701:HOH:O	2.13	0.65
2:A:397:ARG:NH2	6:A:704:HOH:O	2.32	0.57
3:C:603:IHP:O22	3:C:603:IHP:O43	2.24	0.55
2:C:489:ILE:HD12	2:C:526:LEU:HD11	1.91	0.51
2:C:493:ARG:NE	2:C:528:LEU:O	2.49	0.44
2:A:499:PHE:HB3	2:A:500:PRO:HD3	2.01	0.42
2:C:499:PHE:HB3	2:C:500:PRO:HD3	2.01	0.42

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	B	60/73 (82%)	57 (95%)	3 (5%)	0	100	100
1	D	62/73 (85%)	58 (94%)	4 (6%)	0	100	100
2	A	318/318 (100%)	316 (99%)	2 (1%)	0	100	100
2	C	317/318 (100%)	313 (99%)	4 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
All	All	757/782 (97%)	744 (98%)	13 (2%)	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	B	53/61 (87%)	53 (100%)	0	100	100
1	D	54/61 (88%)	54 (100%)	0	100	100
2	A	263/261 (101%)	260 (99%)	3 (1%)	65	77
2	C	262/261 (100%)	260 (99%)	2 (1%)	73	83
All	All	632/644 (98%)	627 (99%)	5 (1%)	73	83

All (5) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	A	214	HIS
2	A	375	PHE
2	A	436	LYS
2	C	342	GLU
2	C	375	PHE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (5) such sidechains are listed below:

Mol	Chain	Res	Type
2	A	258	GLN
2	A	332	GLN
1	B	529	GLN
2	C	258	GLN
2	C	332	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 ⓘ

Of 12 ligands modelled in this entry, 4 are monoatomic - leaving 8 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
3	IHP	A	603	-	36,36,36	0.24	0	60,60,60	0.54	1 (1%)
4	MES	A	604	-	12,12,12	0.62	0	15,16,16	0.34	0
3	IHP	A	601	5	36,36,36	0.37	0	60,60,60	0.57	1 (1%)
3	IHP	C	601	5	36,36,36	0.42	0	60,60,60	0.54	0
4	MES	C	604	-	12,12,12	0.63	0	15,16,16	0.28	0
3	IHP	C	603	-	36,36,36	0.22	0	60,60,60	0.54	1 (1%)
3	IHP	C	602	5	36,36,36	0.33	0	60,60,60	0.56	1 (1%)
3	IHP	A	602	5	36,36,36	0.31	0	60,60,60	0.58	1 (1%)

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	IHP	A	603	-	-	6/30/54/54	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	MES	A	604	-	-	2/6/14/14	0/1/1/1
3	IHP	A	601	5	-	3/30/54/54	0/1/1/1
3	IHP	C	601	5	-	3/30/54/54	0/1/1/1
4	MES	C	604	-	-	1/6/14/14	0/1/1/1
3	IHP	C	603	-	-	7/30/54/54	0/1/1/1
3	IHP	C	602	5	-	3/30/54/54	0/1/1/1
3	IHP	A	602	5	-	2/30/54/54	0/1/1/1

There are no bond length outliers.

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	602	IHP	P2-O12-C2	2.72	130.71	123.43
3	A	602	IHP	P2-O12-C2	2.67	130.56	123.43
3	C	603	IHP	P2-O12-C2	2.60	130.38	123.43
3	A	603	IHP	P2-O12-C2	2.57	130.30	123.43
3	A	601	IHP	P2-O12-C2	2.52	130.15	123.43

There are no chirality outliers.

All (27) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	C	603	IHP	C1-C2-O12-P2
3	C	603	IHP	C3-C2-O12-P2
3	A	603	IHP	C4-C3-O13-P3
3	A	602	IHP	C2-O12-P2-O22
3	A	602	IHP	C5-O15-P5-O25
4	A	604	MES	C8-C7-N4-C3
3	A	603	IHP	C2-C3-O13-P3
4	C	604	MES	N4-C7-C8-S
4	A	604	MES	C8-C7-N4-C5
3	C	603	IHP	C2-C3-O13-P3
3	A	601	IHP	C5-O15-P5-O45
3	C	603	IHP	C3-O13-P3-O43
3	A	601	IHP	C2-C3-O13-P3
3	C	601	IHP	C2-C1-O11-P1
3	C	603	IHP	C2-C1-O11-P1
3	C	603	IHP	C4-C3-O13-P3
3	A	603	IHP	C6-O16-P6-O26
3	C	601	IHP	C6-C1-O11-P1

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Mol	Chain	Res	Type	Atoms
3	C	603	IHP	C6-C1-O11-P1
3	A	603	IHP	C1-O11-P1-O41
3	A	603	IHP	C6-O16-P6-O46
3	C	601	IHP	C5-O15-P5-O45
3	C	602	IHP	C1-O11-P1-O41
3	A	601	IHP	C2-O12-P2-O22
3	A	603	IHP	C1-O11-P1-O21
3	C	602	IHP	C5-O15-P5-O25
3	C	602	IHP	C6-O16-P6-O26

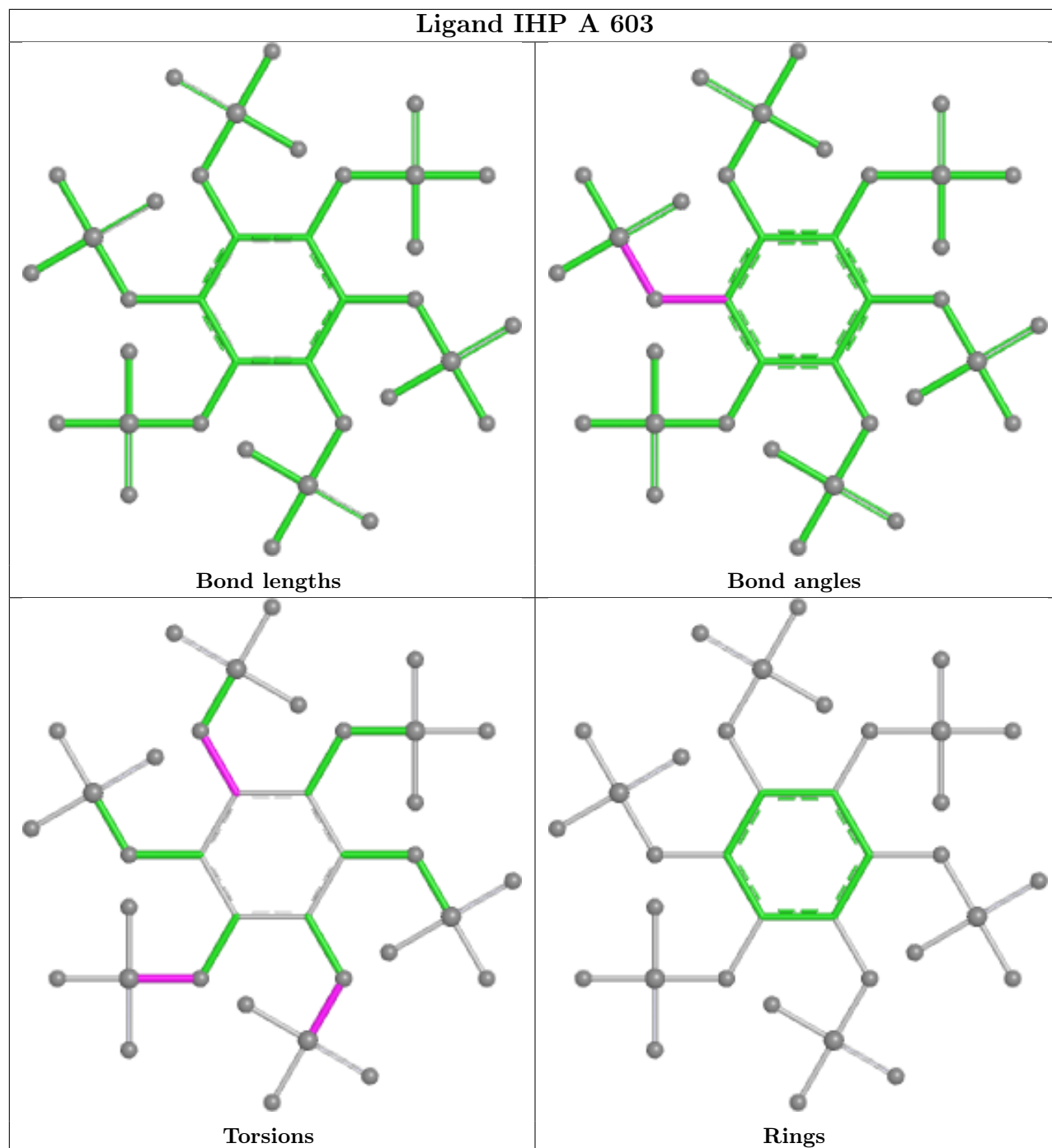
There are no ring outliers.

2 monomers are involved in 2 short contacts:

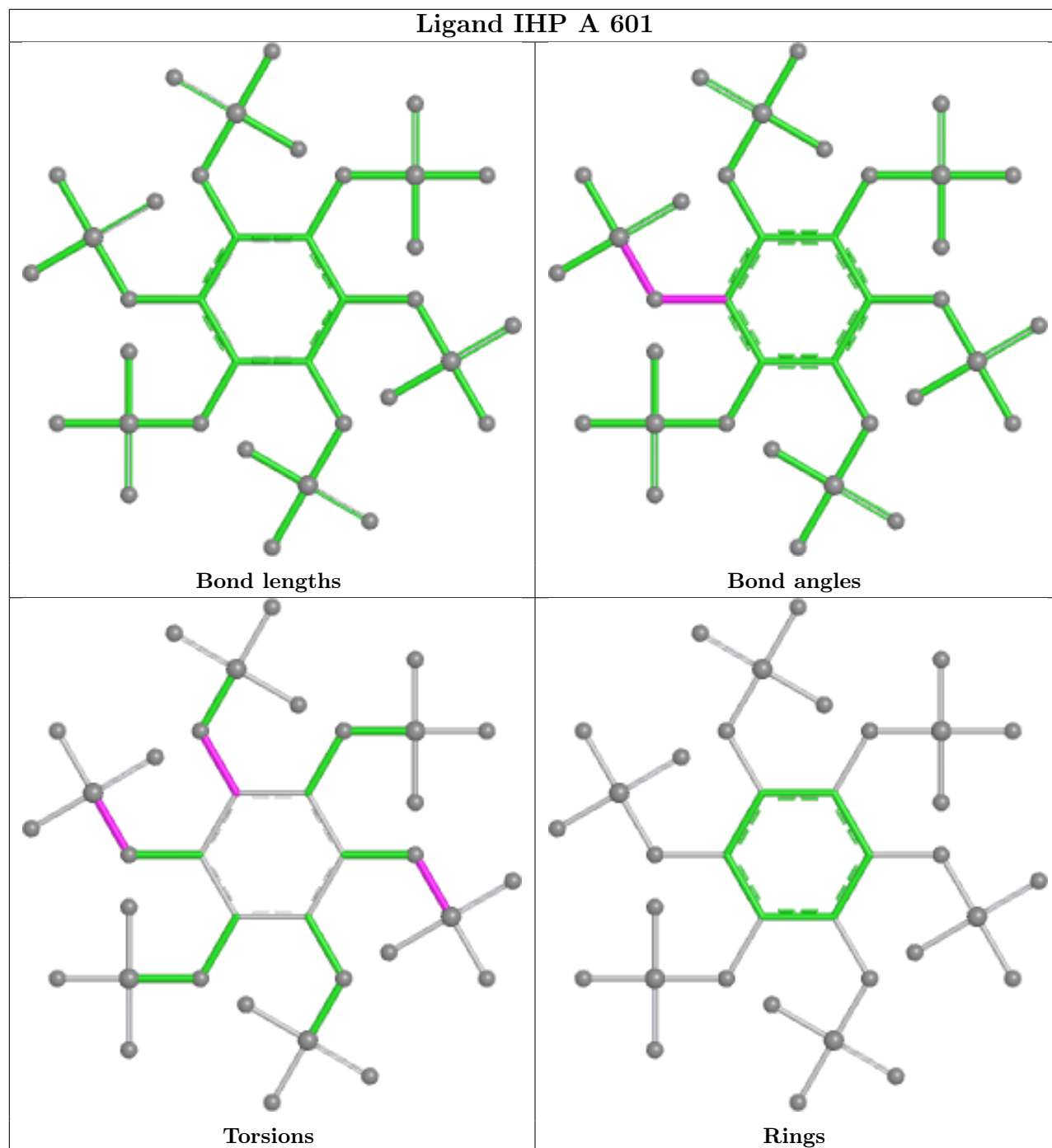
Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	C	603	IHP	1	0
3	A	602	IHP	1	0

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.

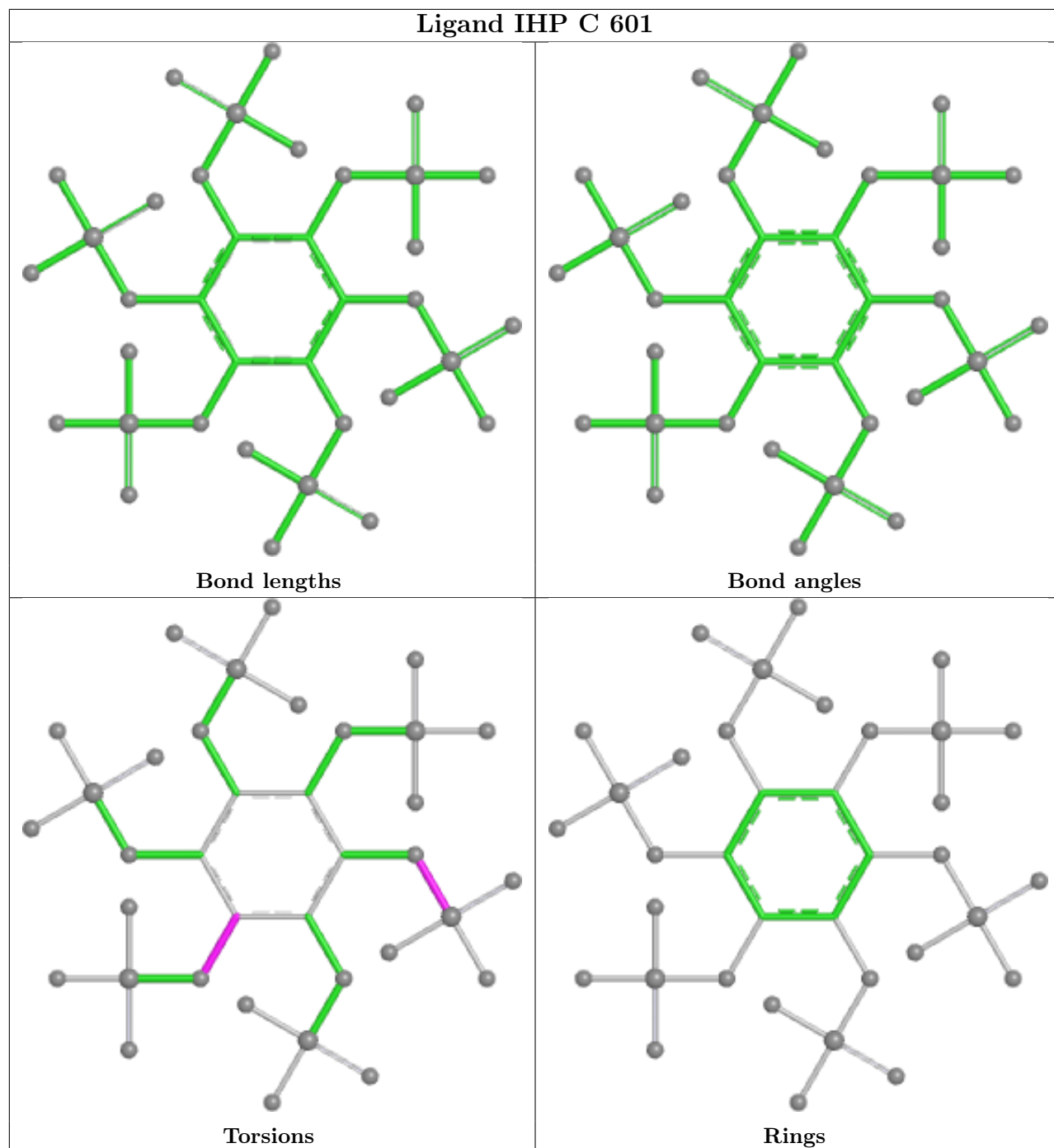
Ligand IHP A 603



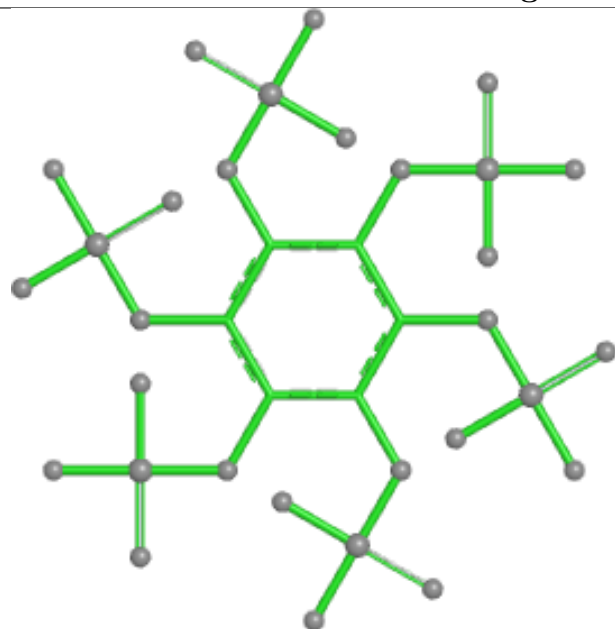
Ligand IHP A 601



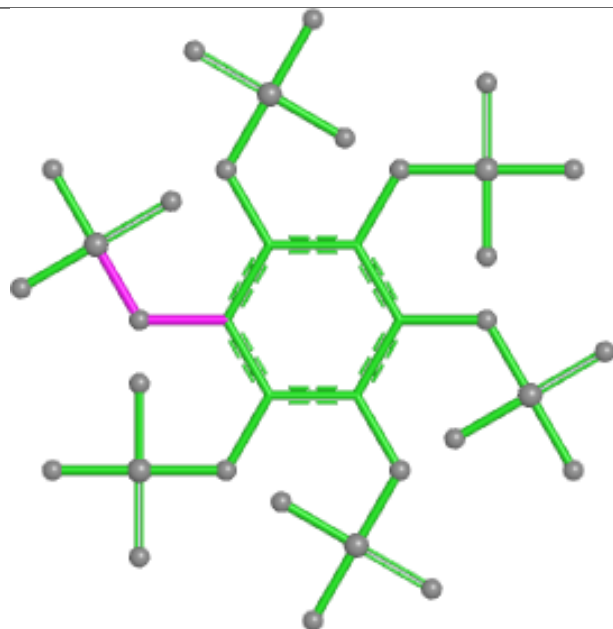
Ligand IHP C 601



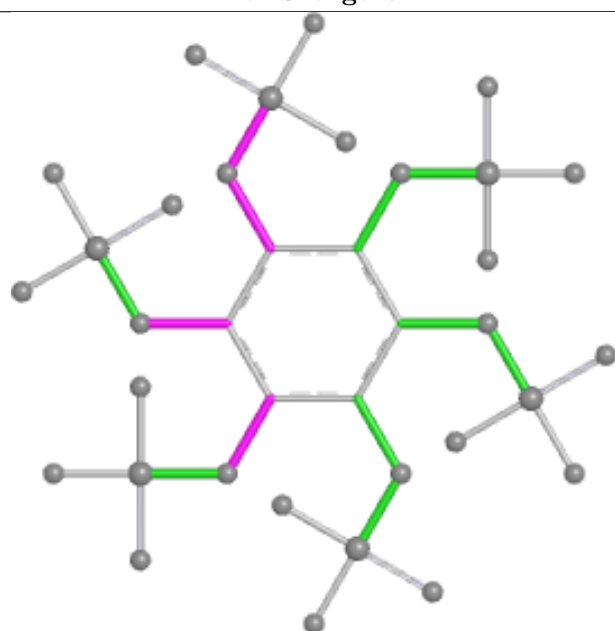
Ligand IHP C 603



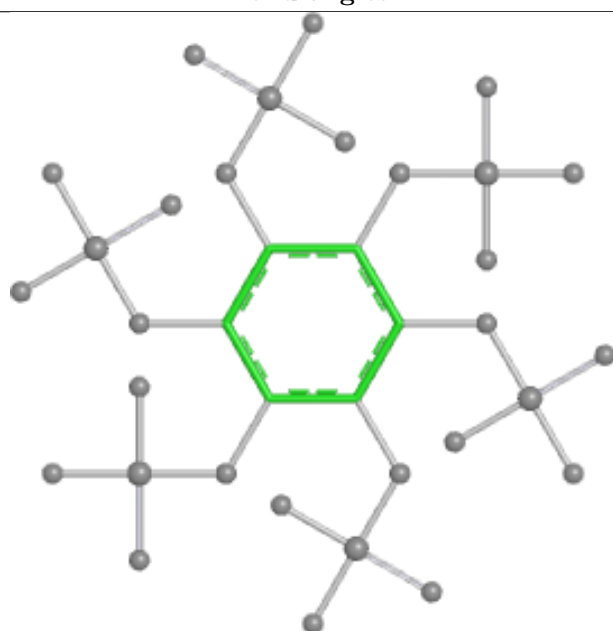
Bond lengths



Bond angles

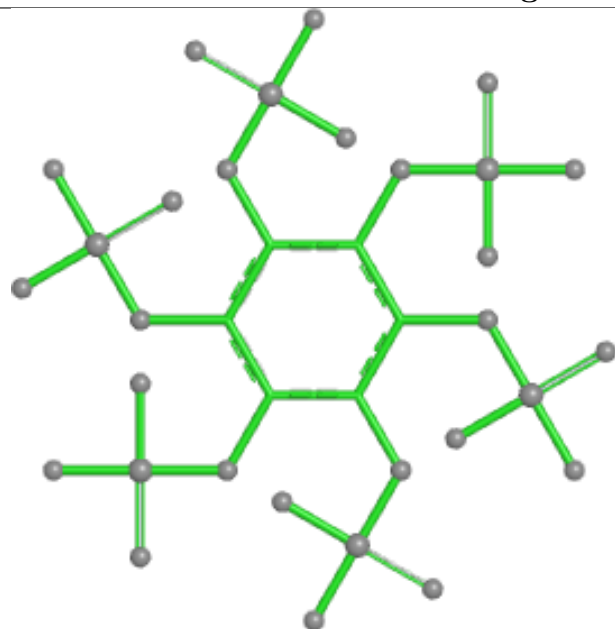


Torsions

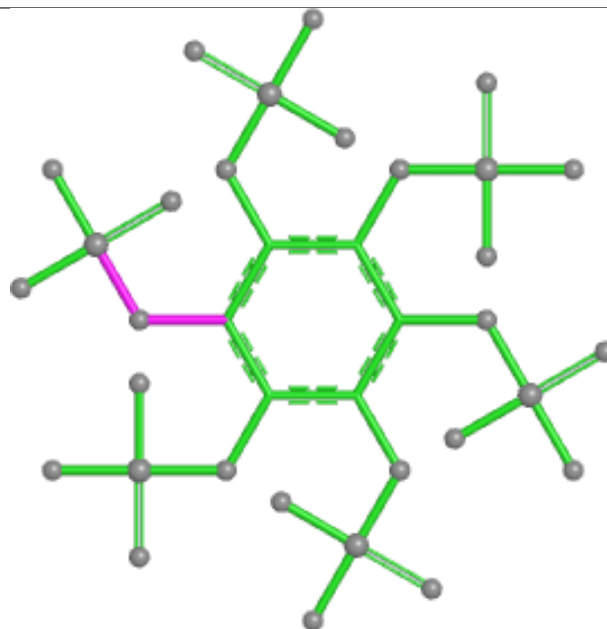


Rings

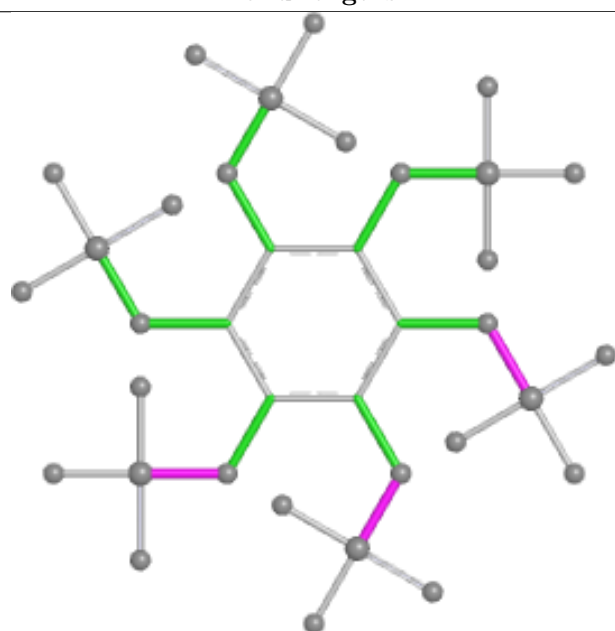
Ligand IHP C 602



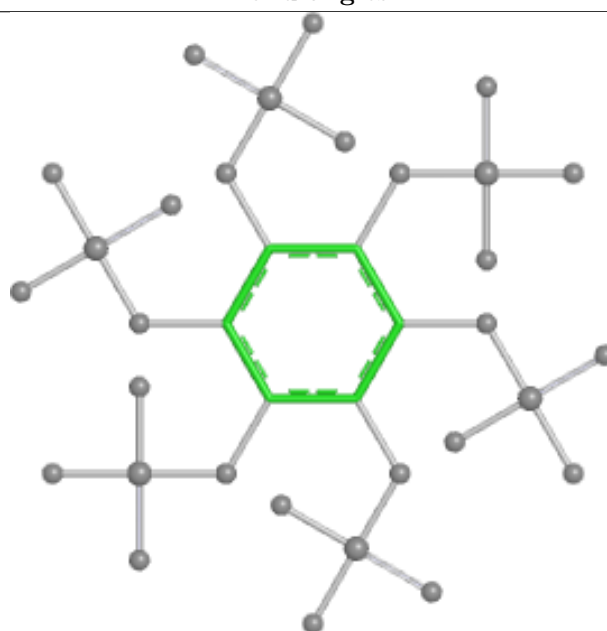
Bond lengths



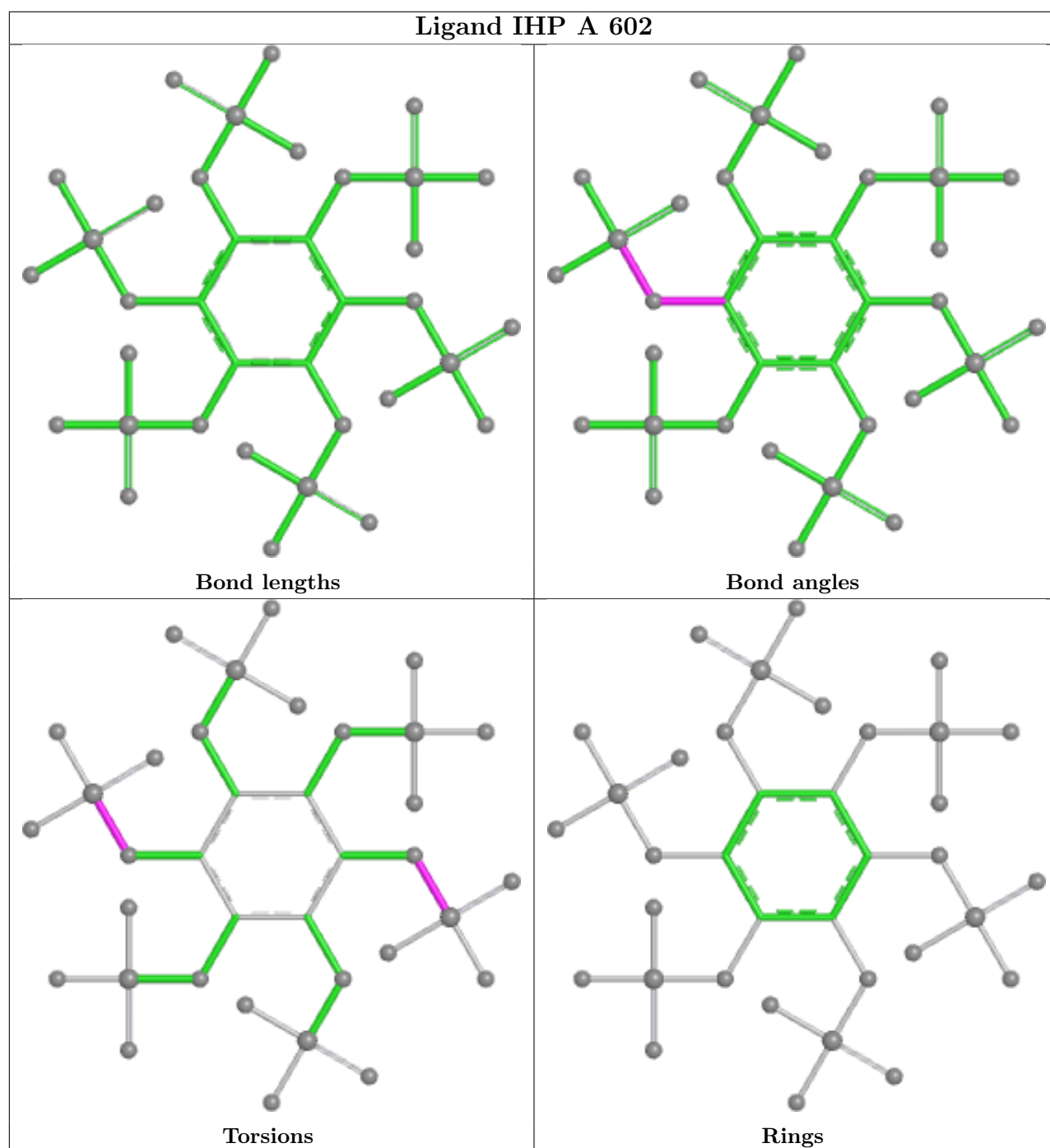
Bond angles



Torsions



Rings



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	B	62/73 (84%)	0.61	1 (1%)	70 70	43, 63, 95, 115	0
1	D	64/73 (87%)	0.65	4 (6%)	26 25	46, 64, 98, 121	0
2	A	318/318 (100%)	0.27	10 (3%)	51 51	24, 49, 86, 116	2 (0%)
2	C	318/318 (100%)	0.25	12 (3%)	44 43	23, 48, 83, 120	1 (0%)
All	All	762/782 (97%)	0.32	27 (3%)	47 46	23, 52, 91, 121	3 (0%)

All (27) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	A	529	GLY	4.6
2	C	261	THR	3.6
2	A	390	LYS	3.4
1	B	496	THR	3.3
1	D	495	GLY	3.1
2	A	249[A]	ARG	3.0
2	C	212	GLY	3.0
1	D	496	THR	3.0
2	C	529	GLY	2.9
1	D	494	ASP	2.8
2	A	526	LEU	2.7
2	A	212	GLY	2.6
2	C	376	ARG	2.5
2	A	214	HIS	2.4
2	C	526	LEU	2.4
2	A	383	PHE	2.4
2	A	261	THR	2.4
2	C	505	HIS	2.4
2	C	528	LEU	2.3
2	C	262	GLY	2.3
2	A	338	GLY	2.3

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Mol	Chain	Res	Type	RSRZ
2	C	260	THR	2.3
2	A	376	ARG	2.2
2	C	289	ALA	2.1
2	C	340	ARG	2.1
1	D	524	GLU	2.0
2	C	524	THR	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](#)

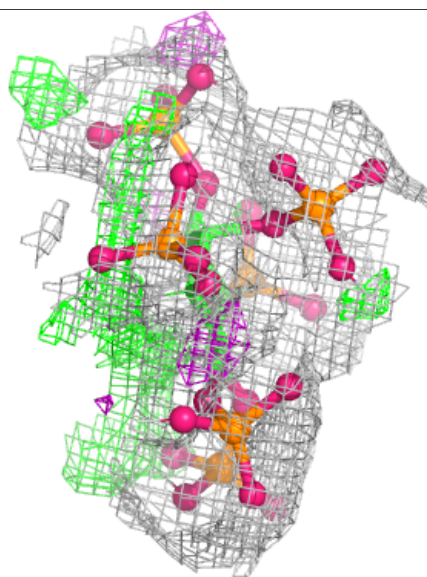
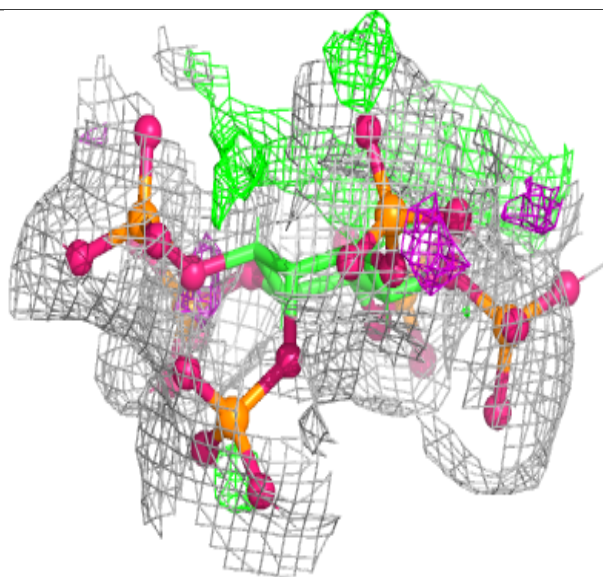
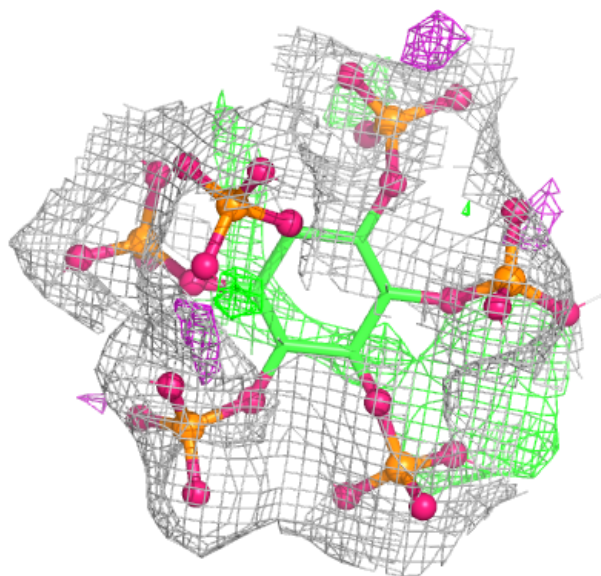
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
3	IHP	C	603	36/36	0.57	0.14	84,127,159,191	0
3	IHP	A	603	36/36	0.62	0.12	97,129,157,163	0
4	MES	A	604	12/12	0.91	0.13	55,67,78,86	0
3	IHP	C	602	36/36	0.93	0.10	38,62,88,99	0
4	MES	C	604	12/12	0.93	0.13	59,74,87,93	0
3	IHP	A	602	36/36	0.94	0.09	34,58,76,81	0
3	IHP	A	601	36/36	0.96	0.07	31,41,56,67	0
3	IHP	C	601	36/36	0.97	0.06	31,40,57,68	0
5	ZN	A	605	1/1	0.99	0.04	41,41,41,41	0
5	ZN	A	606	1/1	1.00	0.01	39,39,39,39	0
5	ZN	C	605	1/1	1.00	0.03	33,33,33,33	1
5	ZN	C	606	1/1	1.00	0.03	41,41,41,41	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.

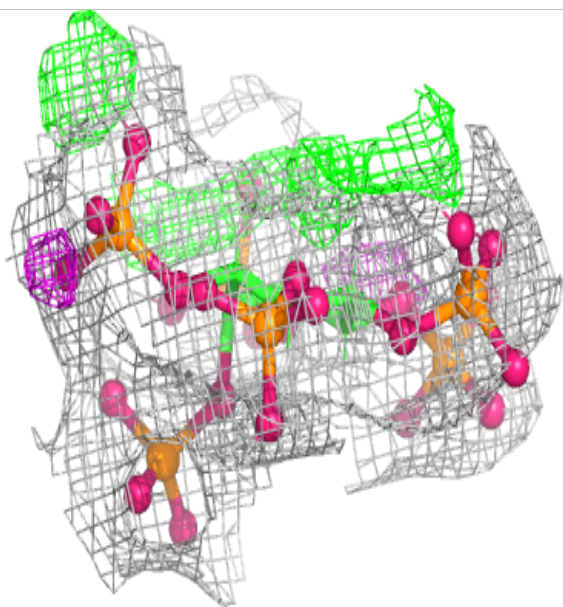
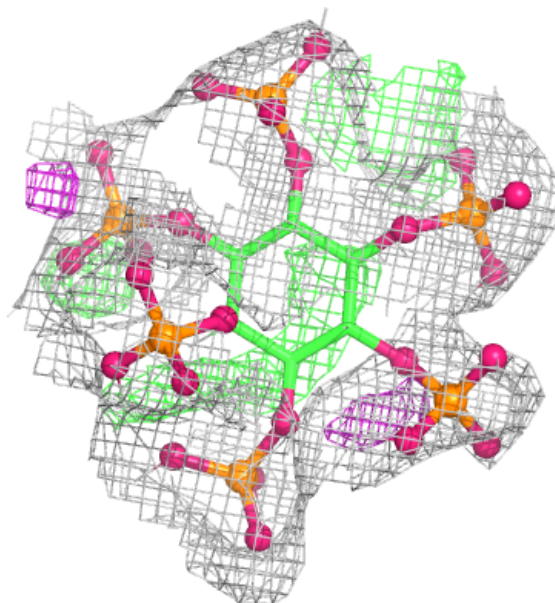
Electron density around IHP C 603:

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



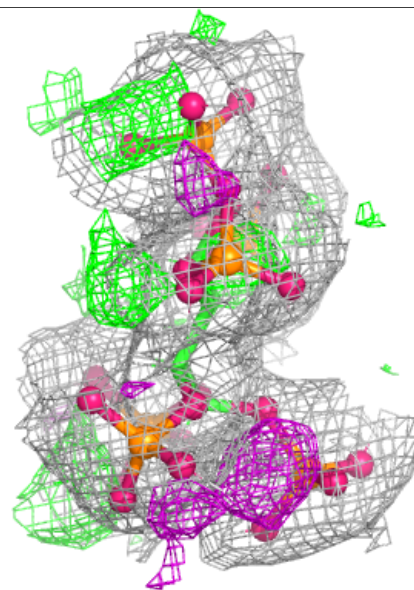
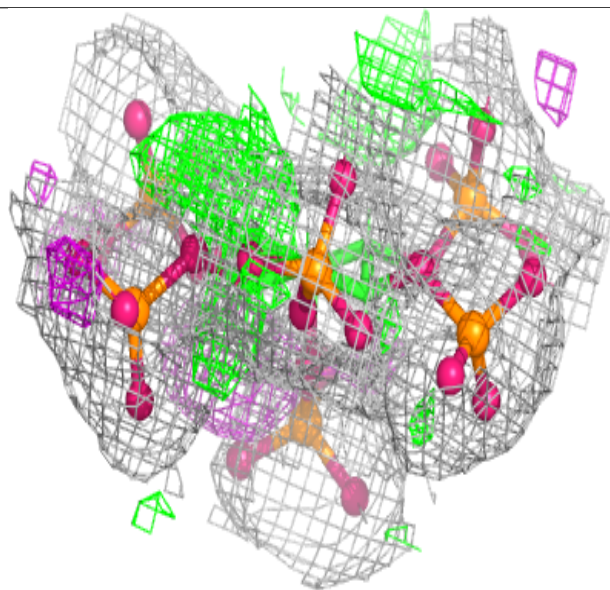
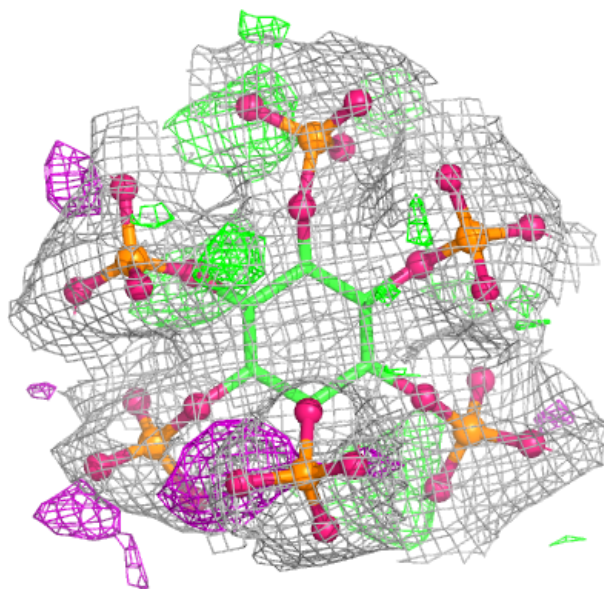
Electron density around IHP A 603:

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



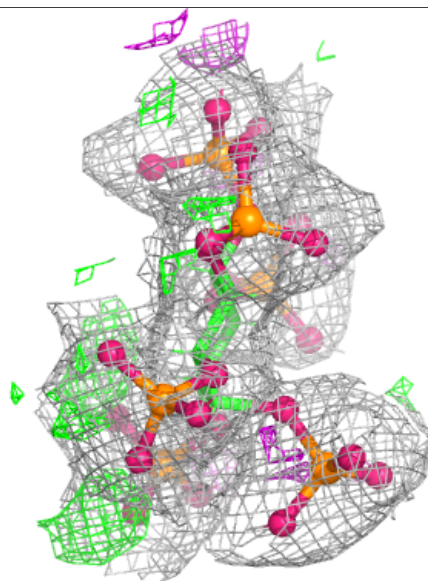
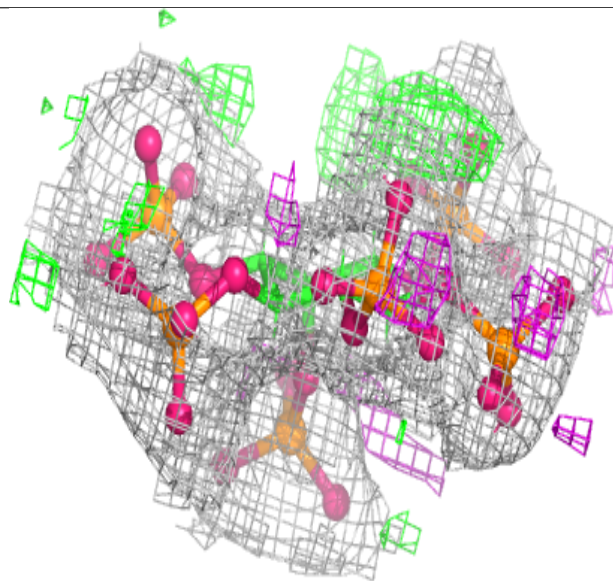
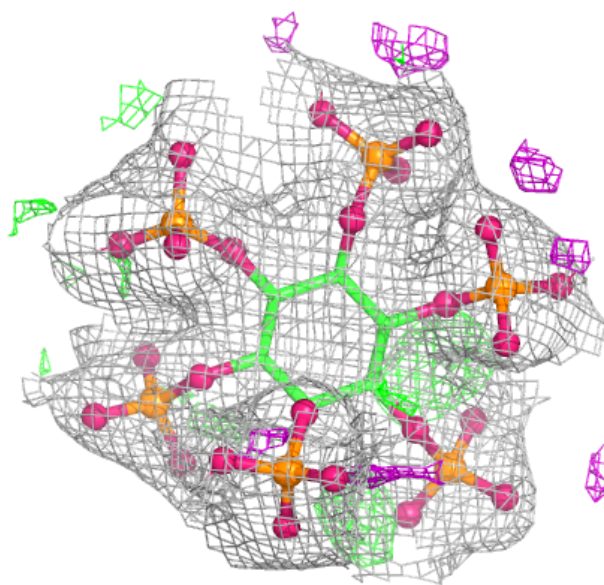
Electron density around IHP C 602:

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



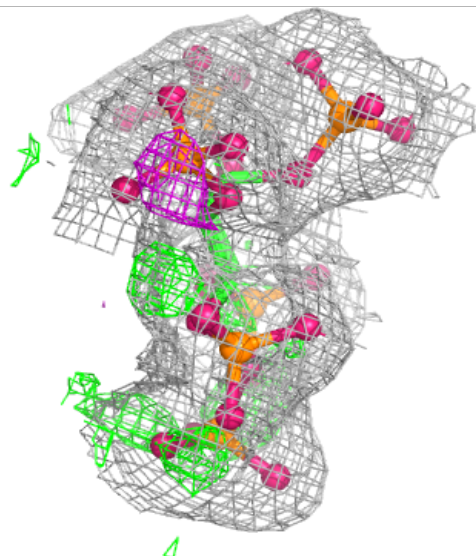
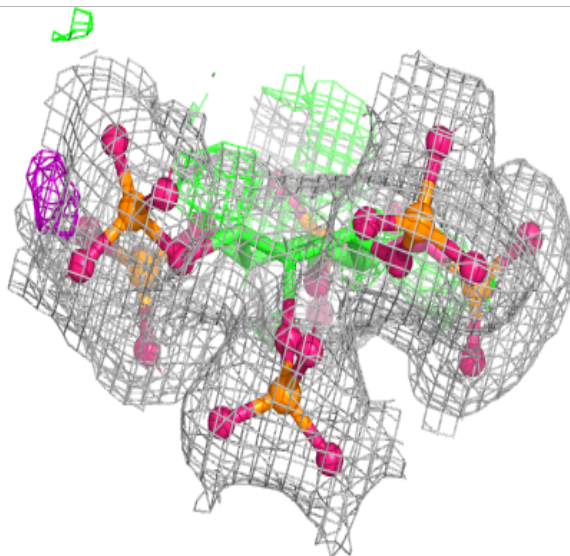
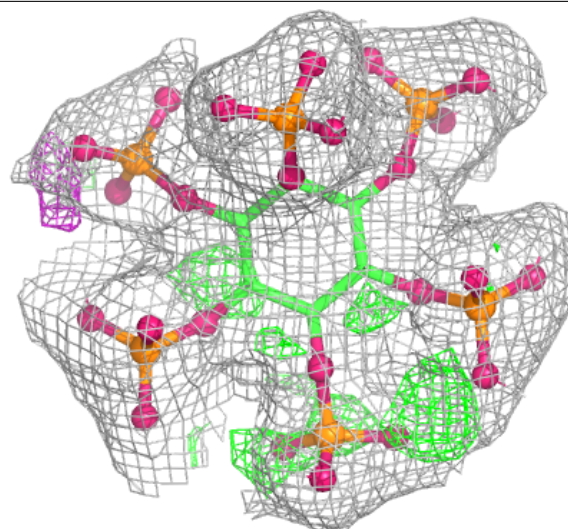
Electron density around IHP A 602:

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 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



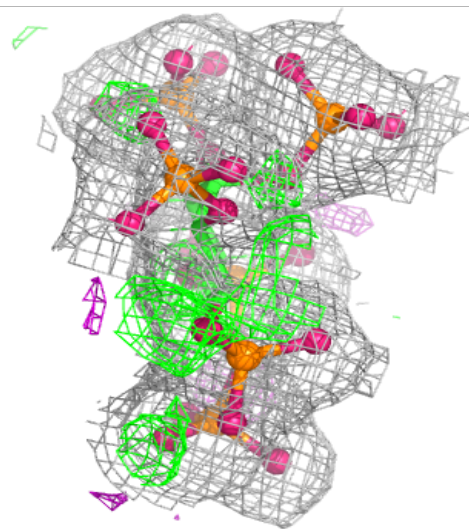
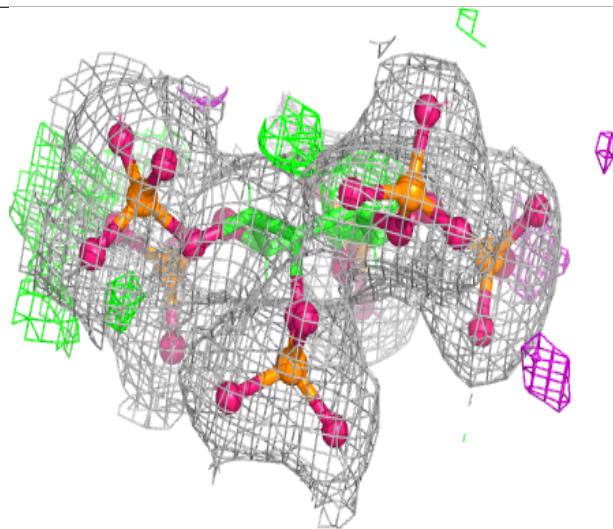
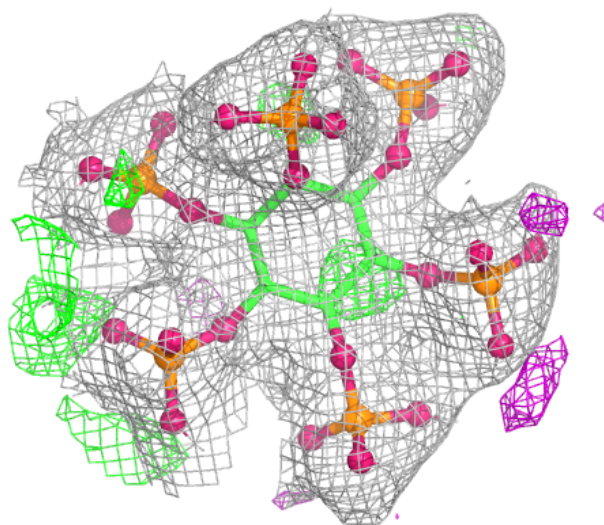
Electron density around IHP A 601:

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



Electron density around IHP C 601:

$2mF_o-DF_c$ (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.