



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 8, 2026 – 06:07 AM UTC

PDB ID : 7BZB / pdb_00007bzb
Title : Crystal structure of plant sesterterpene synthase AtTPS18
Authors : Li, J.X.; Wang, G.D.; Zhang, P.
Deposited on : 2020-04-27
Resolution : 2.15 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

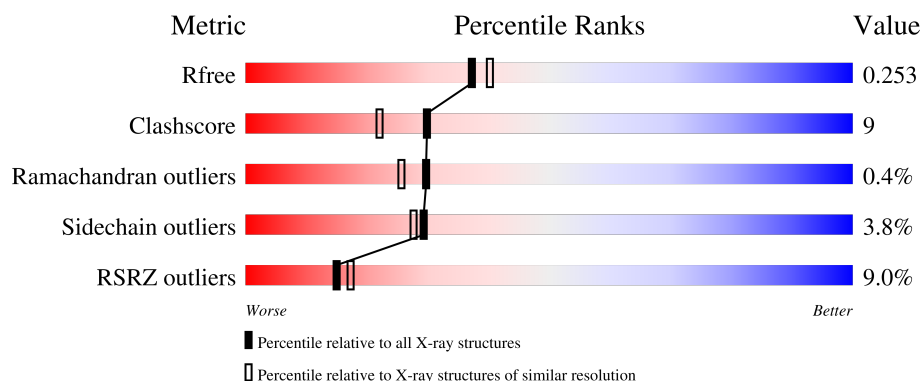
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.15 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	3689 (2.16-2.12)
Clashscore	190562	3812 (2.16-2.12)
Ramachandran outliers	187476	3773 (2.16-2.12)
Sidechain outliers	187428	3772 (2.16-2.12)
RSRZ outliers	180081	3691 (2.16-2.12)

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	605	

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 4566 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.

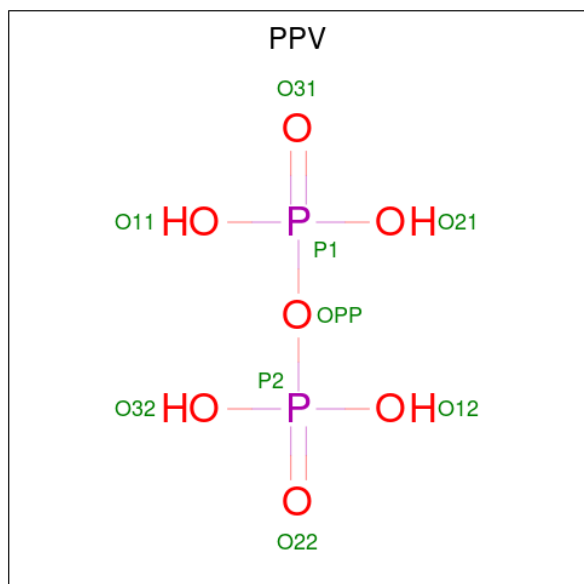
- Molecule 1 is a protein called Terpenoid synthase 18.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	534	Total	C	N	O	S	0	0	0
			4322	2759	720	816	27			

- Molecule 2 is MAGNESIUM ION (CCD ID: MG) (formula: Mg) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	2	Total	Mg	0	0
			2	2		

- Molecule 3 is PYROPHOSPHATE (CCD ID: PPV) (formula: $\text{H}_4\text{O}_7\text{P}_2$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	O	P	0	1
			9	7	2		

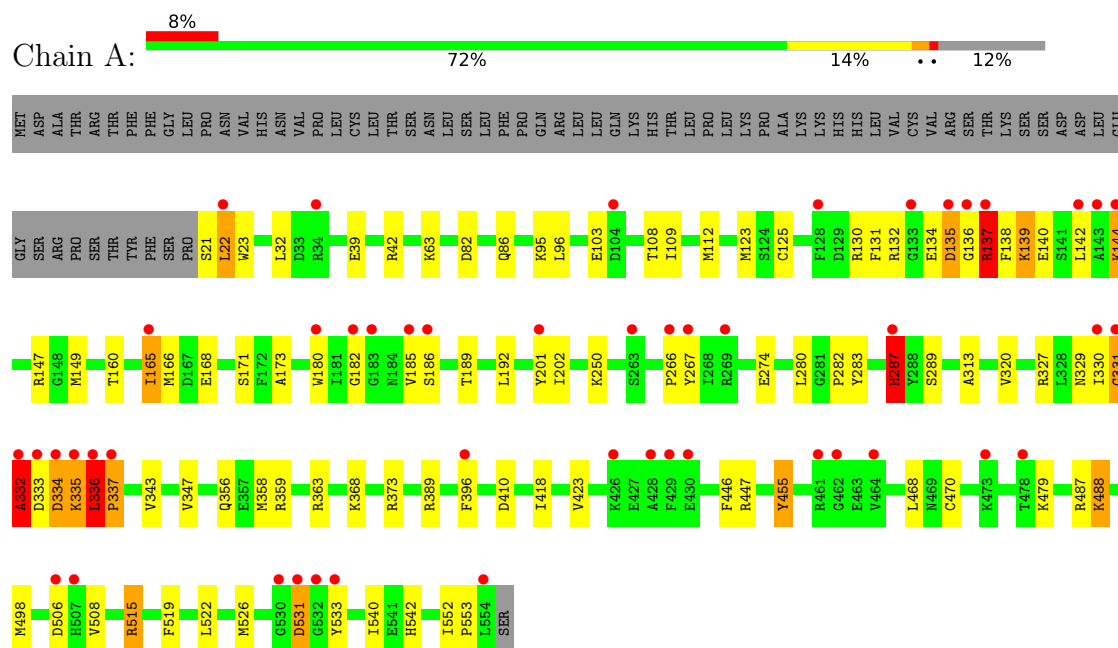
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	233	Total 233	O 233	0	0

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: Terpenoid synthase 18



4 Data and refinement statistics

Property	Value	Source
Space group	P 2 ₁ 2 ₁ 2 ₁	Depositor
Cell constants a, b, c, α , β , γ	64.56Å 80.92Å 125.78Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	40.46 – 2.15 40.46 – 2.15	Depositor EDS
% Data completeness (in resolution range)	77.9 (40.46-2.15) 90.7 (40.46-2.15)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.31 (at 2.14Å)	Xtriage
Refinement program	PHENIX 1.10_2155	Depositor
R, R_{free}	0.204 , 0.254 0.205 , 0.253	Depositor DCC
R_{free} test set	1726 reflections (4.70%)	wwPDB-VP
Wilson B-factor (Å ²)	22.4	Xtriage
Anisotropy	0.080	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 39.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	4566	wwPDB-VP
Average B, all atoms (Å ²)	32.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.70% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality

5.1 Standard geometry

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

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	0.78	6/4417 (0.1%)	0.95	13/5960 (0.2%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	9

All (6) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	289	SER	C-O	-6.09	1.17	1.24
1	A	173	ALA	C-O	-5.87	1.17	1.24
1	A	508	VAL	C-O	-5.14	1.19	1.23
1	A	287	HIS	C-O	-5.06	1.17	1.24
1	A	333	ASP	CA-C	-5.05	1.46	1.52
1	A	22	LEU	CA-C	-5.02	1.46	1.52

All (13) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	23	TRP	N-CA-C	-19.25	90.17	114.04
1	A	332	ALA	N-CA-C	11.40	135.08	110.80
1	A	332	ALA	CB-CA-C	-9.67	91.17	110.42
1	A	135	ASP	N-CA-C	7.70	120.08	108.46
1	A	22	LEU	CB-CA-C	-7.14	95.19	110.76
1	A	144	LYS	N-CA-C	-7.05	104.14	112.89
1	A	130	ARG	N-CA-C	6.03	119.73	112.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	506	ASP	N-CA-C	5.79	119.93	112.86
1	A	336	LEU	N-CA-C	5.74	122.50	109.81
1	A	137	ARG	N-CA-C	5.30	120.12	111.37
1	A	455	TYR	N-CA-C	5.22	117.37	111.11
1	A	337	PRO	N-CA-C	5.17	118.72	110.40
1	A	335	LYS	N-CA-C	5.14	115.16	108.07

There are no chirality outliers.

All (9) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	134	GLU	Peptide
1	A	135	ASP	Peptide
1	A	136	GLY	Peptide
1	A	182	GLY	Peptide
1	A	329	ASN	Peptide
1	A	331	GLY	Peptide
1	A	332	ALA	Peptide
1	A	334	ASP	Peptide
1	A	531	ASP	Peptide

5.2 Too-close contacts

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	4322	0	4244	72	0
2	A	2	0	0	0	0
3	A	9	0	0	3	0
4	A	233	0	0	6	0
All	All	4566	0	4244	73	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 9.

All (73) 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:336:LEU:HB3	1:A:337:PRO:CD	1.53	1.36
1:A:125:CYS:SG	1:A:166:MET:HE3	1.79	1.23
1:A:336:LEU:HB3	1:A:337:PRO:HD3	1.15	1.09
1:A:132:ARG:HH21	1:A:137:ARG:HD3	1.02	1.07
1:A:137:ARG:HH21	1:A:137:ARG:HG3	1.20	1.04
3:A:603[B]:PPV:O21	4:A:701:HOH:O	1.79	1.00
1:A:336:LEU:CB	1:A:337:PRO:CD	2.41	0.98
1:A:132:ARG:NH2	1:A:137:ARG:HD3	1.85	0.92
1:A:336:LEU:HB3	1:A:337:PRO:HD2	1.48	0.92
1:A:498:MET:SD	4:A:898:HOH:O	2.29	0.88
1:A:108:THR:HG22	1:A:112:MET:HE2	1.56	0.86
1:A:125:CYS:SG	1:A:166:MET:CE	2.64	0.84
1:A:180:TRP:O	1:A:186:SER:OG	1.95	0.83
1:A:320:VAL:HG21	1:A:336:LEU:CD1	2.14	0.77
1:A:137:ARG:HD2	1:A:168:GLU:OE1	1.83	0.77
1:A:336:LEU:CB	1:A:337:PRO:HD3	2.09	0.73
1:A:356:GLN:OE1	1:A:359:ARG:NH1	2.21	0.73
1:A:287:HIS:HB3	4:A:893:HOH:O	1.90	0.72
1:A:132:ARG:HG2	1:A:137:ARG:HB3	1.73	0.71
1:A:138:PHE:CE2	1:A:165:ILE:HD11	2.27	0.69
1:A:109:ILE:HA	1:A:112:MET:HE3	1.74	0.68
1:A:487:ARG:NH2	4:A:704:HOH:O	2.28	0.65
1:A:334:ASP:H	1:A:335:LYS:HG2	1.61	0.65
1:A:137:ARG:HG3	1:A:137:ARG:NH2	1.97	0.64
1:A:336:LEU:CB	1:A:337:PRO:HD2	2.20	0.63
1:A:330:ILE:HG22	1:A:330:ILE:O	1.98	0.61
1:A:447:ARG:NH2	3:A:603[B]:PPV:O22	2.28	0.61
1:A:63:LYS:NZ	1:A:103:GLU:OE2	2.30	0.58
1:A:327:ARG:HH22	1:A:335:LYS:NZ	2.03	0.57
1:A:331:GLY:HA2	1:A:335:LYS:HE2	1.86	0.57
1:A:533:TYR:CD2	1:A:533:TYR:N	2.73	0.56
1:A:137:ARG:CD	1:A:168:GLU:OE1	2.53	0.56
1:A:363:ARG:NH2	1:A:423:VAL:O	2.39	0.54
1:A:363:ARG:HD2	1:A:418:ILE:O	2.08	0.54
1:A:331:GLY:C	1:A:335:LYS:HZ3	2.15	0.53
1:A:332:ALA:H	1:A:335:LYS:HZ2	1.56	0.53
1:A:82:ASP:OD2	1:A:86:GLN:NE2	2.39	0.52
1:A:327:ARG:NH2	1:A:335:LYS:HZ3	2.07	0.52
1:A:266:PRO:HG2	1:A:267:TYR:HD2	1.75	0.51
1:A:140:GLU:O	1:A:140:GLU:HG3	2.09	0.50
1:A:282:PRO:HG3	1:A:519:PHE:HE1	1.77	0.49
1:A:358:MET:HB3	1:A:363:ARG:HB2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:373:ARG:HD3	1:A:410:ASP:OD2	2.11	0.49
1:A:522:LEU:HG	1:A:526:MET:HE2	1.95	0.48
1:A:320:VAL:HB	1:A:336:LEU:HD13	1.95	0.48
1:A:320:VAL:HG21	1:A:336:LEU:HD12	1.93	0.48
1:A:95:LYS:HB3	1:A:95:LYS:HE3	1.77	0.47
1:A:327:ARG:NH2	1:A:335:LYS:NZ	2.63	0.46
1:A:39:GLU:OE1	1:A:42:ARG:NH1	2.43	0.46
1:A:373:ARG:NE	4:A:714:HOH:O	2.46	0.46
1:A:396:PHE:HA	1:A:470:CYS:HB3	1.98	0.45
1:A:446:PHE:HE2	3:A:603[B]:PPV:O22	1.98	0.45
1:A:274:GLU:HG3	1:A:540:ILE:CD1	2.47	0.45
1:A:32:LEU:HD22	1:A:250:LYS:HE3	2.00	0.44
1:A:201:TYR:CD2	1:A:202:ILE:HG13	2.52	0.44
1:A:488:LYS:HB3	1:A:488:LYS:HE3	1.77	0.44
1:A:131:PHE:HA	1:A:139:LYS:HE3	1.99	0.44
1:A:332:ALA:H	1:A:335:LYS:NZ	2.15	0.44
1:A:368:LYS:HE3	1:A:368:LYS:HB2	1.76	0.44
1:A:282:PRO:HG3	1:A:519:PHE:CE1	2.52	0.44
1:A:137:ARG:HH21	1:A:137:ARG:CG	2.06	0.43
1:A:320:VAL:CB	1:A:336:LEU:HD13	2.48	0.43
1:A:320:VAL:CG2	1:A:336:LEU:CD1	2.92	0.43
1:A:138:PHE:CZ	1:A:165:ILE:HD11	2.53	0.43
1:A:147:ARG:NH1	1:A:192:LEU:HD22	2.34	0.42
1:A:335:LYS:HB3	1:A:336:LEU:H	1.72	0.42
1:A:343:VAL:O	1:A:347:VAL:HG23	2.20	0.41
1:A:455:TYR:CD1	1:A:468:LEU:HD23	2.55	0.41
1:A:542:HIS:HB3	4:A:792:HOH:O	2.21	0.41
1:A:313:ALA:O	1:A:389:ARG:NH1	2.49	0.40
1:A:515:ARG:HA	1:A:515:ARG:HD3	1.55	0.40
1:A:552:ILE:HA	1:A:553:PRO:HD3	1.92	0.40
1:A:96:LEU:HD21	1:A:123:MET:HG3	2.02	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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	532/605 (88%)	512 (96%)	18 (3%)	2 (0%)	30	26

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	336	LEU
1	A	142	LEU

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	475/542 (88%)	457 (96%)	18 (4%)	29	28

All (18) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	21	SER
1	A	22	LEU
1	A	137	ARG
1	A	139	LYS
1	A	144	LYS
1	A	149	MET
1	A	160	THR
1	A	165	ILE
1	A	171	SER
1	A	185	VAL
1	A	189	THR
1	A	280	LEU
1	A	283	TYR
1	A	287	HIS
1	A	479	LYS
1	A	488	LYS
1	A	515	ARG

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Mol	Chain	Res	Type
1	A	531	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	91	HIS

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 3 ligands modelled in this entry, 2 are monoatomic - leaving 1 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	PPV	A	603[B]	-	6,8,8	0.70	0	12,13,13	1.06	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	PPV	A	603[B]	-	-	0/6/6/6	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

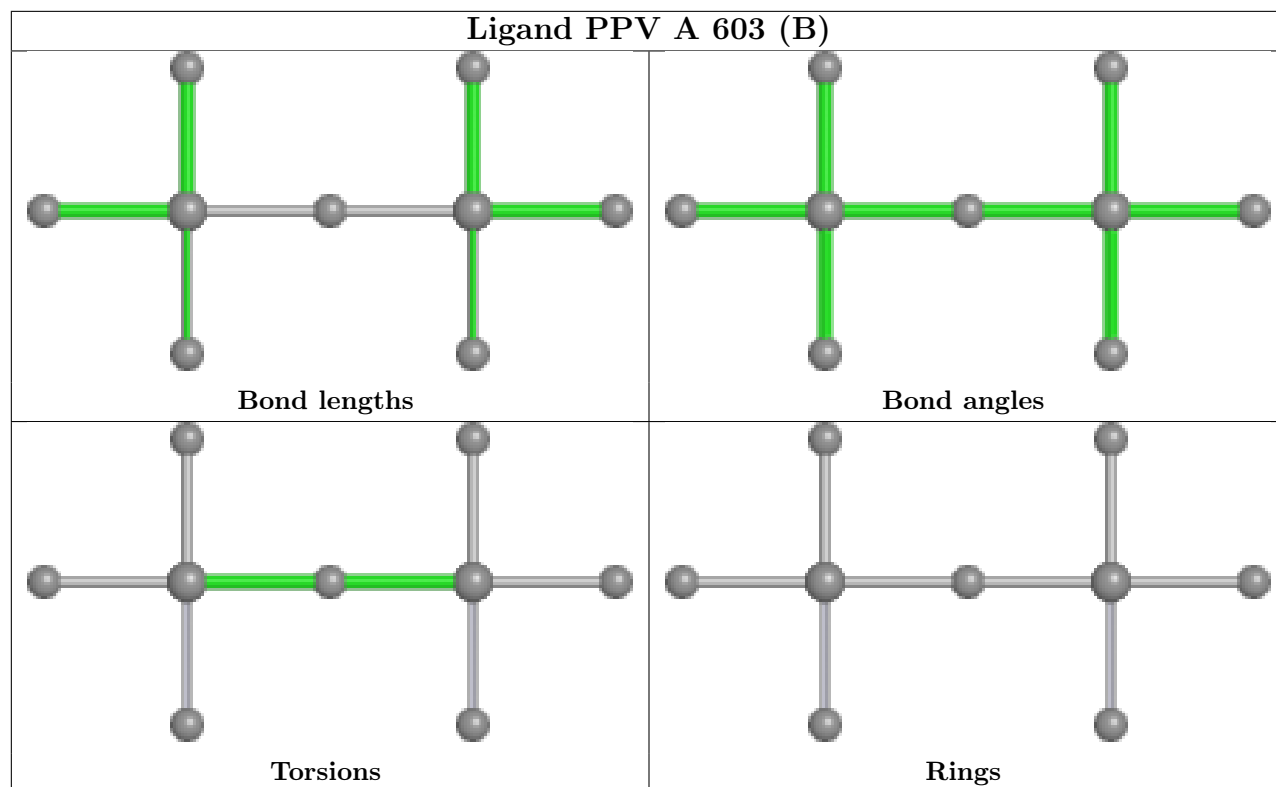
There are no torsion outliers.

There are no ring outliers.

1 monomer is involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	603[B]	PPV	3	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.



5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

In the following table, the column labelled ‘#RSRZ> 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q< 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	534/605 (88%)	0.57	48 (8%) 15 17	12, 31, 57, 88	0

All (48) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	532	GLY	6.3
1	A	136	GLY	5.8
1	A	22	LEU	5.6
1	A	332	ALA	5.1
1	A	267	TYR	4.1
1	A	462	GLY	3.9
1	A	530	GLY	3.7
1	A	330	ILE	3.7
1	A	183	GLY	3.7
1	A	287	HIS	3.6
1	A	133	GLY	3.6
1	A	185	VAL	3.5
1	A	429	PHE	3.3
1	A	334	ASP	3.3
1	A	182	GLY	3.2
1	A	533	TYR	3.2
1	A	335	LYS	3.1
1	A	142	LEU	3.0
1	A	430	GLU	3.0
1	A	137	ARG	2.9
1	A	135	ASP	2.9
1	A	143	ALA	2.9
1	A	331	GLY	2.8
1	A	337	PRO	2.7
1	A	531	ASP	2.7
1	A	128	PHE	2.7
1	A	396	PHE	2.7

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Mol	Chain	Res	Type	RSRZ
1	A	336	LEU	2.6
1	A	266	PRO	2.6
1	A	554	LEU	2.6
1	A	104	ASP	2.6
1	A	461	ARG	2.6
1	A	34	ARG	2.5
1	A	263	SER	2.5
1	A	478	THR	2.5
1	A	426	LYS	2.4
1	A	186	SER	2.4
1	A	428	ALA	2.3
1	A	165	ILE	2.2
1	A	144	LYS	2.2
1	A	269	ARG	2.2
1	A	333	ASP	2.2
1	A	464	VAL	2.1
1	A	473	LYS	2.1
1	A	506	ASP	2.1
1	A	507	HIS	2.1
1	A	180	TRP	2.1
1	A	201	TYR	2.0

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

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

6.3 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

6.4 Ligands ⓘ

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
3	PPV	A	603[B]	9/9	0.66	0.24	31,34,47,58	9
2	MG	A	602	1/1	0.69	0.16	43,43,43,43	0

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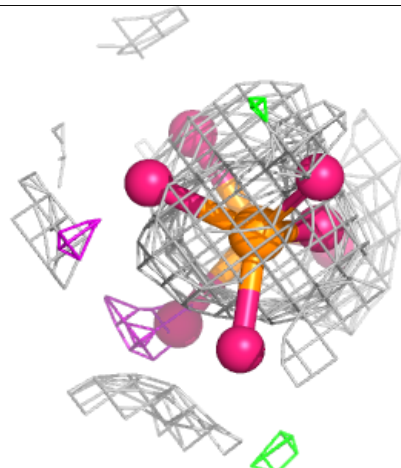
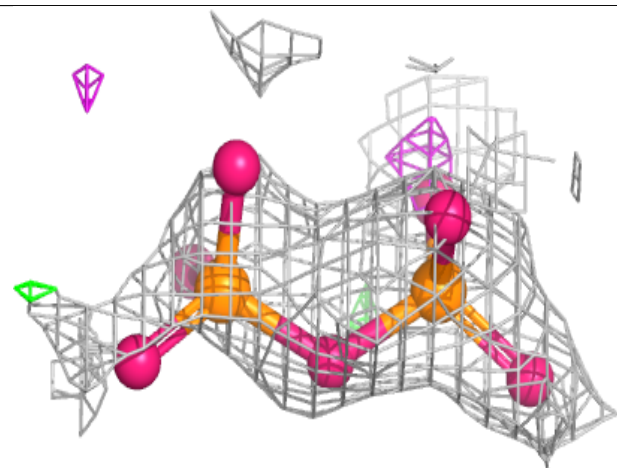
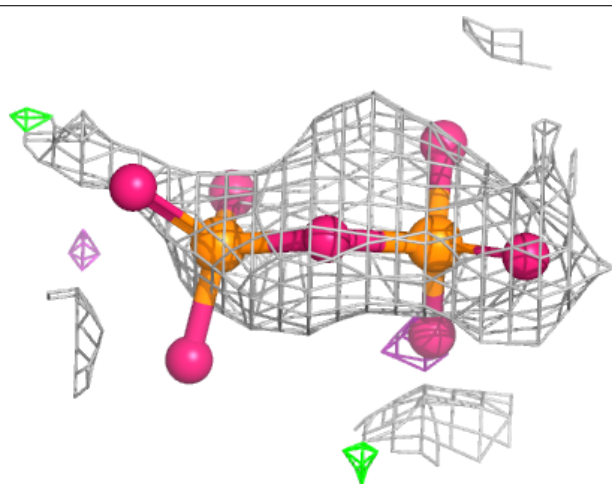
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	MG	A	601	1/1	0.89	0.09	35,35,35,35	0

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.

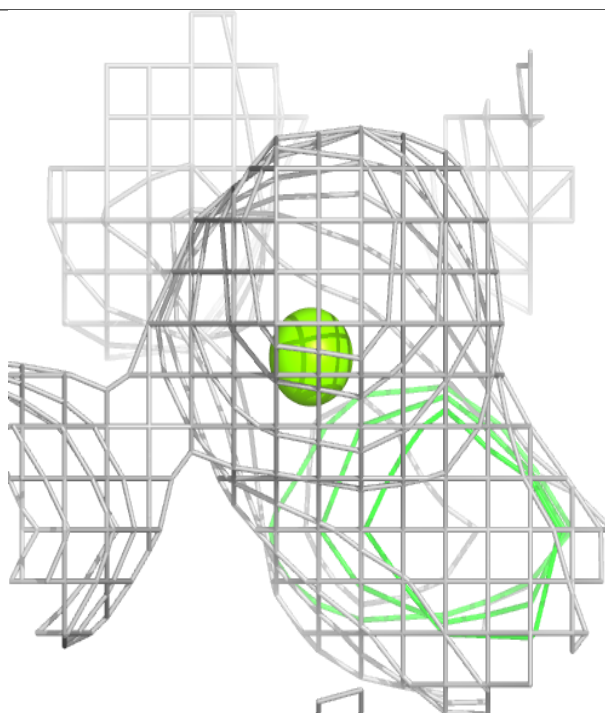
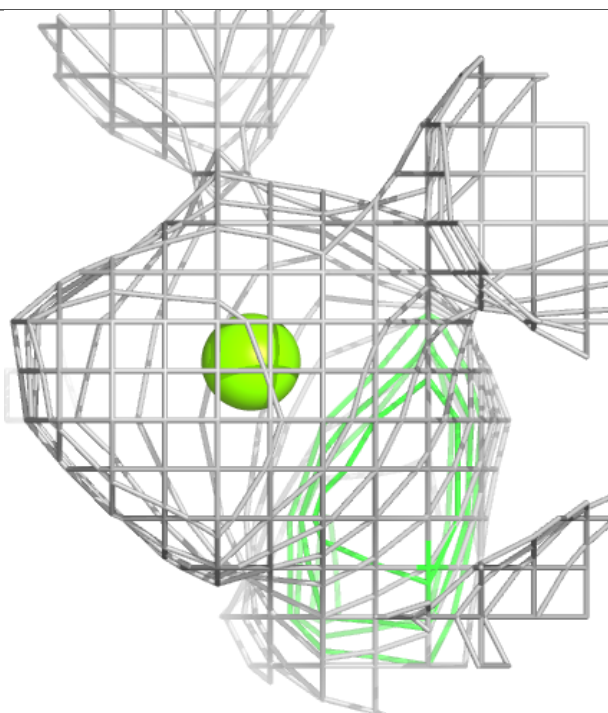
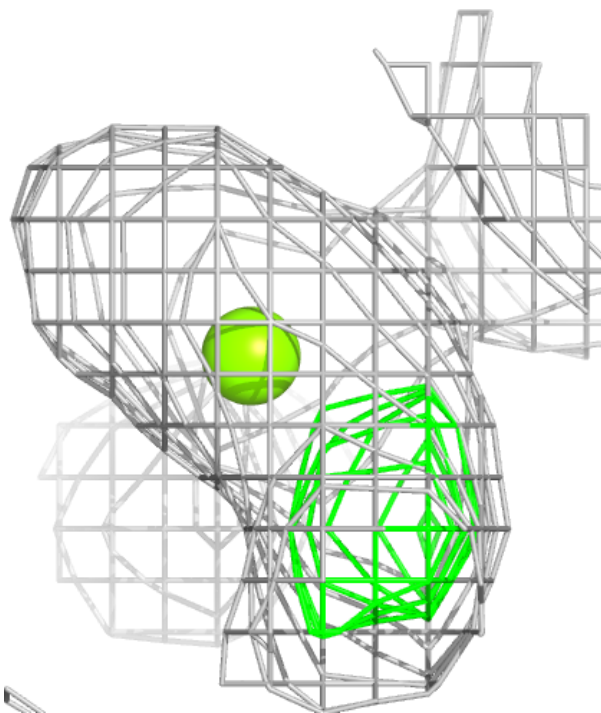
Electron density around PPV A 603 (B):

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



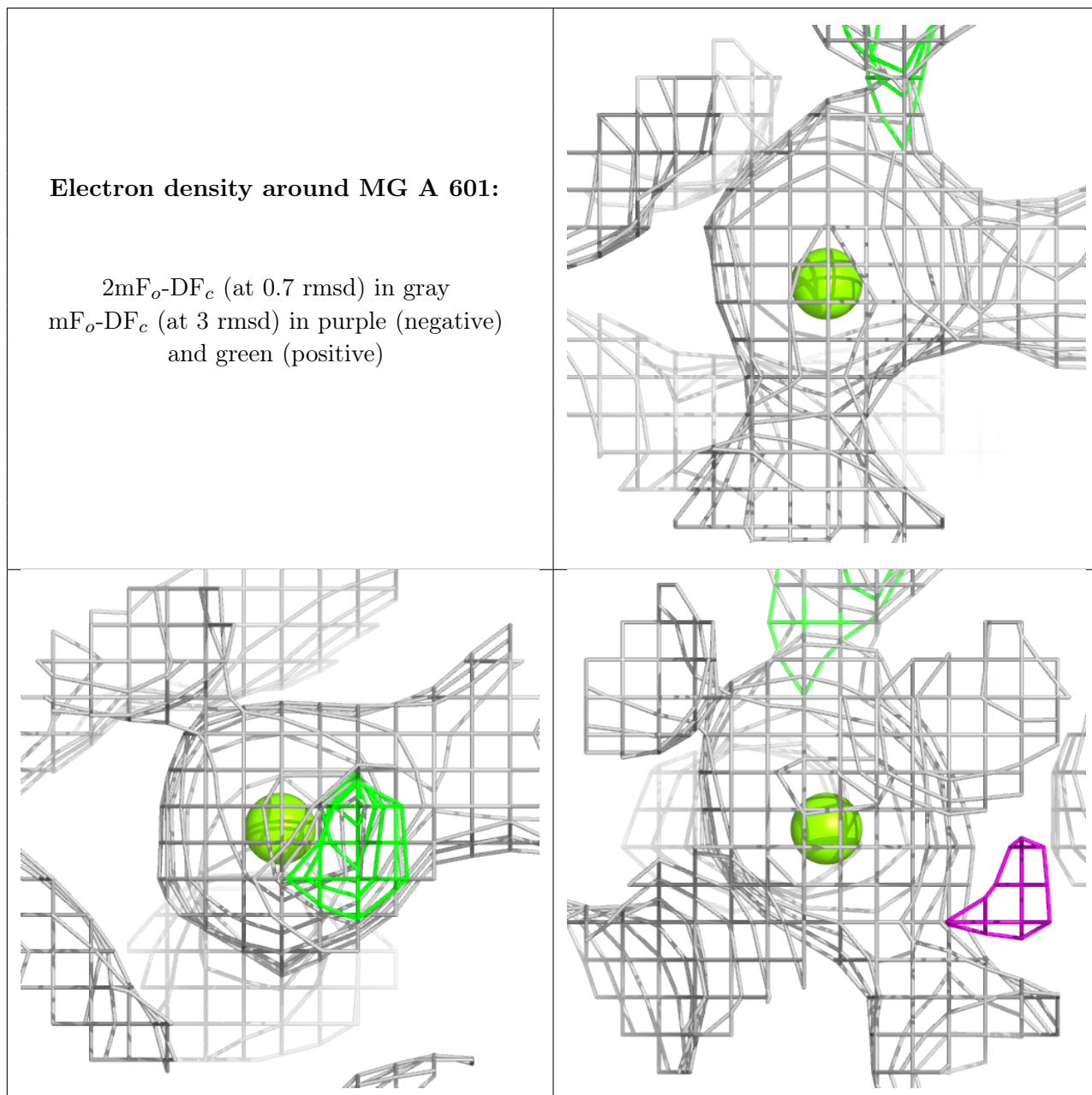
Electron density around MG A 602:

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



Electron density around MG 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)

**6.5 Other polymers** ⓘ

There are no such residues in this entry.