

Full wwPDB X-ray Structure Validation Report (i)

Jan 6, 2025 – 05:11 PM EST

PDB ID : 8VK6

Title: 14alpha-demethylase (CYP51) with amide-linked long arm extension antifun-

gal azole inhibitor

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Deposited on : 2024-01-08

Resolution : 1.89 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 (i) 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 (1)) 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)

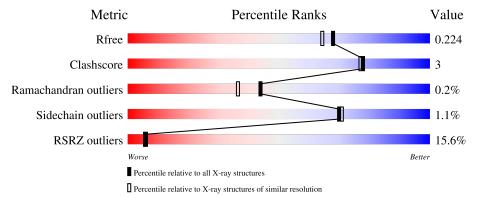
Validation Pipeline (wwPDB-VP) : 2.40

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure: X- $RAY\ DIFFRACTION$

The reported resolution of this entry is 1.89 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 $(\# \mathrm{Entries})$	$\begin{array}{c} {\rm Similar\ resolution} \\ (\#{\rm Entries},\ {\rm resolution\ range}({\rm \AA})) \end{array}$
R_{free}	164625	7293 (1.90-1.90)
Clashscore	180529	8090 (1.90-1.90)
Ramachandran outliers	177936	8022 (1.90-1.90)
Sidechain outliers	177891	8022 (1.90-1.90)
RSRZ outliers	164620	7292 (1.90-1.90)

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 <=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	
			15%	
1	A	539	91%	7% • •



2 Entry composition (i)

There are 6 unique types of molecules in this entry. The entry contains 4532 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 Lanosterol 14-alpha demethylase.

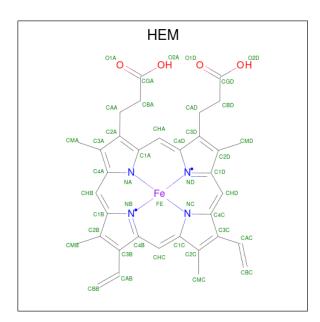
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
1	A	527	Total 4264	C 2762	N 719	O 762	S 21	0	1	0

There are 9 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	531	GLY	-	expression tag	UNP A6ZSR0
A	532	GLY	-	expression tag	UNP A6ZSR0
A	533	ARG	-	expression tag	UNP A6ZSR0
A	534	HIS	-	expression tag	UNP A6ZSR0
A	535	HIS	-	expression tag	UNP A6ZSR0
A	536	HIS	-	expression tag	UNP A6ZSR0
A	537	HIS	-	expression tag	UNP A6ZSR0
A	538	HIS	-	expression tag	UNP A6ZSR0
A	539	HIS	-	expression tag	UNP A6ZSR0

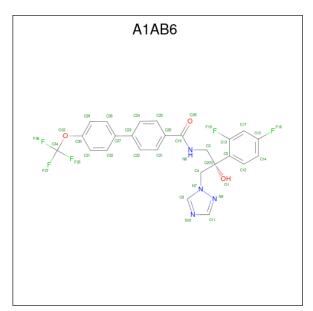
• Molecule 2 is PROTOPORPHYRIN IX CONTAINING FE (three-letter code: HEM) (formula: C₃₄H₃₂FeN₄O₄).





Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	
2	A	1	Total 43	C 34	Fe 1	N 4	O 4	0	0

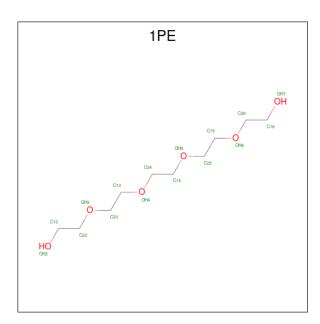
• Molecule 3 is N-[(2S)-2-(2,4-difluorophenyl)-2-hydroxy-3-(1H-1,2,4-triazol-1-yl)propyl]-4'-(trifluoromethoxy)[1,1'-biphenyl]-4-carboxamide (three-letter code: A1AB6) (formula: $C_{25}H_{19}F_5N_4O_3$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	
2	Λ	1	Total	С	F	N	О	0	0
3	А	1	37	25	5	4	3	U	U

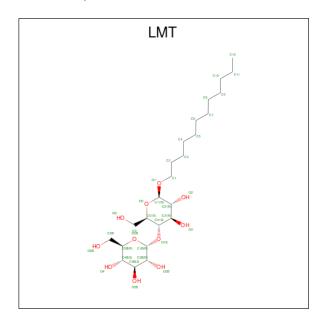
 \bullet Molecule 4 is PENTAETHYLENE GLYCOL (three-letter code: 1PE) (formula: $\mathrm{C_{10}H_{22}O_6}).$





Mol	Chain	Residues	Atoms		ZeroOcc	AltConf	
4	A	1	Total 16	C 10	O 6	0	0

 \bullet Molecule 5 is DODECYL-BETA-D-MALTOSIDE (three-letter code: LMT) (formula: $C_{24}H_{46}O_{11}).$



Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	1	Total C 35 24	O 11	0	0

• Molecule 6 is water.



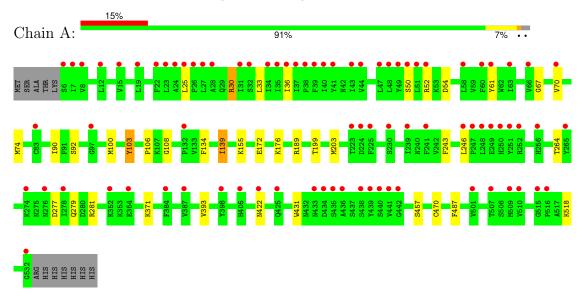
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	A	137	Total O 137 137	0	0



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: Lanosterol 14-alpha demethylase





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants	76.69Å 65.54Å 80.96Å	Donositon
a, b, c, α , β , γ	90.00° 98.50° 90.00°	Depositor
Resolution (Å)	44.11 - 1.89	Depositor
Resolution (A)	44.11 - 1.89	EDS
% Data completeness	96.6 (44.11-1.89)	Depositor
(in resolution range)	96.6 (44.11-1.89)	EDS
R_{merge}	0.05	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	1.08 (at 1.89Å)	Xtriage
Refinement program	PHENIX 1.20.1_4487	Depositor
D D	0.196 , 0.226	Depositor
R, R_{free}	0.196 , 0.224	DCC
R_{free} test set	61647 reflections (3.26%)	wwPDB-VP
Wilson B-factor (Å ²)	38.6	Xtriage
Anisotropy	0.441	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.38, 43.9	EDS
L-test for twinning ²	$ < L >=0.50, < L^2>=0.34$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	4532	wwPDB-VP
Average B, all atoms (Å ²)	46.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 5.16% of the height of the origin peak. No significant pseudotranslation is detected.

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



¹Intensities estimated from amplitudes.

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: A1AB6, HEM, LMT, 1PE

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	l Chain	Bond	lengths	Bond angles		
	Chain	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	A	0.40	0/4384	0.55	0/5939	

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	A	4264	0	4257	23	0
2	A	43	0	30	2	0
3	A	37	0	0	0	0
4	A	16	0	22	1	0
5	A	35	0	46	1	0
6	A	137	0	0	2	0
All	All	4532	0	4355	24	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 3.

All (24) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.



Atom-1	Atom-2	Interatomic	Clash
Atom-1	Atom-2	${\rm distance}({\rm \AA})$	overlap (Å)
1:A:264:THR:HG23	4:A:603:1PE:H242	1.66	0.78
1:A:189:ARG:NH2	6:A:704:HOH:O	2.34	0.59
1:A:277:ASP:OD1	1:A:279:GLN:NE2	2.36	0.58
1:A:199:THR:O	1:A:203:MET:HG3	2.05	0.57
1:A:134:PHE:CD2	1:A:139:ILE:HD12	2.45	0.51
1:A:90:ILE:HD13	1:A:393:VAL:HG11	1.93	0.50
1:A:61:TYR:CD2	1:A:67:GLY:HA2	2.48	0.49
1:A:25:LEU:O	1:A:30:ARG:NH2	2.46	0.49
1:A:172:GLU:HG2	1:A:176:LYS:HD2	1.97	0.47
1:A:371:LYS:HE2	1:A:431:TRP:CZ3	2.50	0.46
1:A:155:LYS:HB3	1:A:155:LYS:HE3	1.78	0.46
1:A:33:LEU:HA	1:A:36:ILE:HG22	1.98	0.46
1:A:106:PRO:HB3	1:A:457:SER:O	2.15	0.46
1:A:470:CYS:HB2	2:A:601:HEM:NA	2.32	0.43
1:A:470:CYS:HA	2:A:601:HEM:C4D	2.54	0.43
1:A:103:TYR:O	1:A:108:GLY:HA3	2.18	0.43
1:A:518:LYS:NZ	6:A:710:HOH:O	2.46	0.42
1:A:33:LEU:HA	1:A:33:LEU:HD23	1.89	0.42
1:A:70:VAL:O	1:A:74:MET:HG3	2.19	0.42
1:A:52:ARG:NH2	1:A:54:ASP:OD2	2.53	0.42
5:A:604:LMT:H12	5:A:604:LMT:H2'	1.82	0.41
1:A:92:SER:HA	1:A:100:MET:O	2.21	0.41
1:A:279:GLN:HG2	1:A:281:ARG:CZ	2.52	0.40
1:A:243:PHE:HB3	1:A:246:LEU:HG	2.03	0.40

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	526/539 (98%)	511 (97%)	14 (3%)	1 (0%)	44	36

All (1) Ramachandran outliers are listed below:



Mol	Chain	Res	Type
1	A	139	ILE

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	463/473 (98%)	458 (99%)	5 (1%)	70 71	

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

Mol	Chain	Res	Type
1	A	30	ARG
1	A	50	SER
1	A	103	TYR
1	A	422	ASN
1	A	487	PHE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

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)

4 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	Res Link Bond lengths			Bond angles			
MIOI	Type	Chain	nes	Lilik	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	A1AB6	A	602	2	36,40,40	0.30	0	52,58,58	0.78	2 (3%)
4	1PE	A	603	-	15,15,15	0.16	0	14,14,14	0.15	0
2	HEM	A	601	1,3	42,50,50	1.56	7 (16%)	46,82,82	1.55	7 (15%)
5	LMT	A	604	-	36,36,36	1.05	3 (8%)	47,47,47	0.86	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	A1AB6	A	602	2	-	1/30/30/30	0/4/4/4
4	1PE	A	603	_	-	0/13/13/13	-
2	HEM	A	601	1,3	-	2/12/54/54	-
5	LMT	A	604	_	-	7/21/61/61	0/2/2/2

All (10) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\operatorname{Observed}(\text{\AA})$	Ideal(A)
2	A	601	HEM	C3C-C2C	-3.81	1.35	1.40
2	A	601	HEM	C3C-CAC	3.37	1.55	1.47
2	A	601	HEM	C3C-C4C	3.02	1.45	1.41
2	A	601	HEM	CAB-C3B	2.68	1.54	1.47
5	A	604	LMT	O3B-C3B	-2.42	1.37	1.43
5	A	604	LMT	O3'-C3'	-2.41	1.37	1.43
2	A	601	HEM	FE-ND	2.22	2.10	1.98
2	A	601	HEM	CMD-C2D	2.20	1.55	1.50
2	A	601	HEM	CMB-C2B	2.20	1.55	1.50
5	A	604	LMT	O2'-C2'	-2.11	1.37	1.43



All ((9)) bond	angle	outliers	are	listed	below:
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Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^o)$	$\operatorname{Ideal}({}^{o})$
2	A	601	HEM	C4C-CHD-C1D	3.87	127.67	122.56
2	A	601	HEM	C1B-NB-C4B	3.76	109.66	105.21
3	A	602	A1AB6	C21-C20-C19	3.14	130.77	120.60
3	A	602	A1AB6	C25-C20-C19	-3.08	110.61	120.60
2	A	601	HEM	C4D-ND-C1D	2.90	108.64	105.21
2	A	601	HEM	CMC-C2C-C3C	2.57	129.82	124.68
2	A	601	HEM	C2D-C1D-ND	-2.24	107.31	109.90
2	A	601	HEM	CMA-C3A-C4A	-2.15	125.31	128.46
2	A	601	HEM	C2C-C3C-C4C	2.12	108.38	106.90

There are no chirality outliers.

All (10) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	602	A1AB6	C2-C4-N7-C8
5	A	604	LMT	O1'-C1-C2-C3
5	A	604	LMT	C2-C1-O1'-C1'
5	A	604	LMT	C1-C2-C3-C4
5	A	604	LMT	C3-C4-C5-C6
5	A	604	LMT	C7-C8-C9-C10
5	A	604	LMT	C2'-C1'-O1'-C1
5	A	604	LMT	C11-C10-C9-C8
2	A	601	HEM	CAA-CBA-CGA-O2A
2	A	601	HEM	CAA-CBA-CGA-O1A

There are no ring outliers.

3 monomers are involved in 4 short contacts:

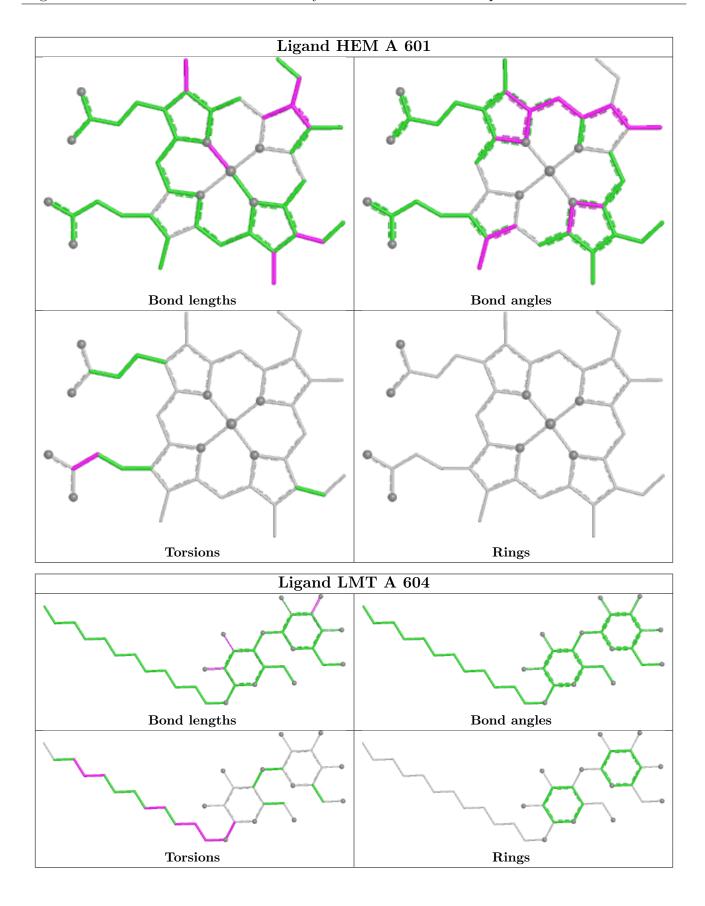
Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	A	603	1PE	1	0
2	A	601	HEM	2	0
5	A	604	LMT	1	0

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 then 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^{th} 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>	# RSRZ > 2		$OWAB(Å^2)$	Q<0.9
1	A	527/539 (97%)	0.89	82 (15%) 6 6		18, 43, 71, 87	1 (0%)

All (82) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	441	VAL	6.5
1	A	23	LEU	5.8
1	A	40	ILE	5.4
1	A	7	ILE	5.3
1	A	515	GLY	5.0
1	A	532	GLY	4.9
1	A	224	ASP	4.6
1	A	225	PHE	4.4
1	A	246	LEU	4.3
1	A	247	PRO	4.3
1	A	8	VAL	4.2
1	A	34	ILE	4.0
1	A	6	SER	3.9
1	A	37	ILE	3.8
1	A	70	VAL	3.8
1	A	22	PHE	3.8
1	A	35	ILE	3.7
1	A	27	LEU	3.6
1	A	439	TYR	3.6
1	A	19	LEU	3.6
1	A	248	LEU	3.5
1	A	36	ILE	3.5
1	A	12	LEU	3.4
1	A	47	LEU	3.4
1	A	44	VAL	3.4
1	A	436	ALA	3.3
1	A	434	ASP	3.3

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Mol	$\cfrac{nued\ from}{\mathbf{Chain}}$	Res	Type	RSRZ
1	A	31	ILE	3.3
1		433		3.3
1	A A		ASN SER	
		32		3.1
1	A	48	LEU	3.1
1	A	516	PRO	3.0
1	A	250	HIS	2.9
1	A	252	ARG	2.9
1	A	50	SER	2.9
1	A	425	GLN	2.8
1	A	49	TYR	2.8
1	A	26	PRO	2.7
1	A	39	PHE	2.7
1	A	435	SER	2.7
1	A	274	LYS	2.6
1	A	41	TYR	2.6
1	A	256	HIS	2.6
1	A	510	VAL	2.6
1	A	422	ASN	2.5
1	A	28	ALA	2.5
1	A	398	TYR	2.5
1	A	387	VAL	2.5
1	A	249	GLU	2.5
1	A	265	TYR	2.4
1	A	43	ILE	2.4
1	A	51	LEU	2.4
1	A	66	VAL	2.4
1	A	83	CYS	2.4
1	A	38	PRO	2.4
1	A	15	VAL	2.4
1	A	223	THR	2.4
1	A	25	LEU	2.3
1	A	354	GLU	2.3
1	A	24	ALA	2.3
1	A	276	ASN	2.3
1	A	58	LEU	2.3
1	A	63	ILE	2.2
1	A	241	PHE	2.2
1	A	442	GLY	2.2
1	A	352	LYS	2.2
1	A	507	THR	2.2
1	A	230	SER	2.2
1	A	384	PHE	2.2

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Mol	Chain	Res	Type	RSRZ
1	A	132	PRO	2.2
1	A	278	ILE	2.2
1	A	438	SER	2.2
1	A	509	MET	2.1
1	A	239	ILE	2.1
1	A	501	VAL	2.1
1	A	61	TYR	2.1
1	A	251	TYR	2.1
1	A	97	GLY	2.1
1	A	405	HIS	2.0
1	A	60	PHE	2.0
1	A	440	SER	2.0
1	A	52	ARG	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 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^{th} 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.

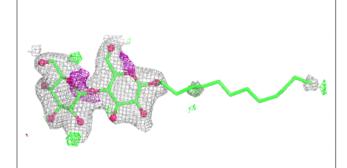
Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q < 0.9
5	LMT	A	604	35/35	0.81	0.16	49,69,88,91	0
4	1PE	A	603	16/16	0.88	0.15	42,50,54,56	0
3	A1AB6	A	602	37/37	0.95	0.08	28,35,57,60	0
2	HEM	A	601	43/43	0.98	0.07	24,28,32,36	0

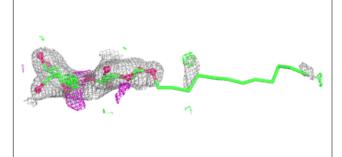
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

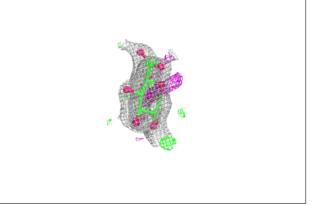


Electron density around LMT A 604:

 $2 {\rm mF}_o\text{-}{\rm DF}_c$ (at 0.7 rmsd) in gray ${\rm mF}_o\text{-}{\rm DF}_c$ (at 3 rmsd) in purple (negative) and green (positive)

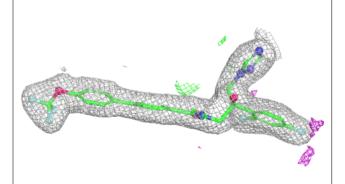


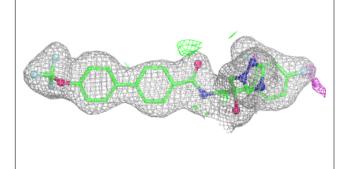


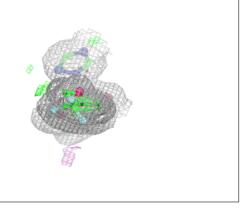


Electron density around A1AB6 A 602:

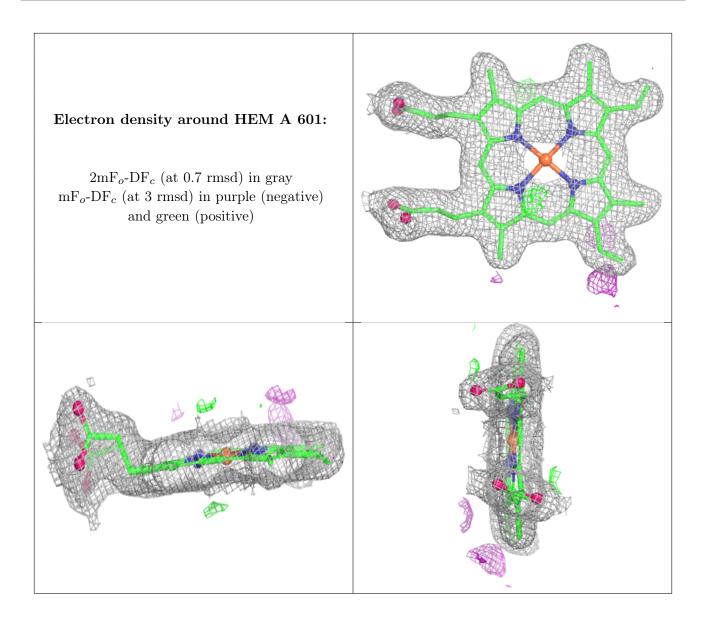
 $2 \text{mF}_o\text{-DF}_c$ (at 0.7 rmsd) in gray $\text{mF}_o\text{-DF}_c$ (at 3 rmsd) in purple (negative) and green (positive)











6.5 Other polymers (i)

There are no such residues in this entry.

