



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 1, 2016 – 08:18 AM GMT

PDB ID : 3E5J
Title : Crystal structure of CYP105P1 wild-type ligand-free form
Authors : Xu, L.H.; Fushinobu, S.; Ikeda, H.; Wakagi, T.; Shoun, H.
Deposited on : 2008-08-14
Resolution : 1.95 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
<http://wwpdb.org/validation/2016/XrayValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.7 (RC4), CSD as536be (2015)
Xtriage (Phenix) : 1.9-1692
EDS : rb-20026688
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
Refmac : 5.8.0135
CCP4 : 6.5.0
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : trunk26865

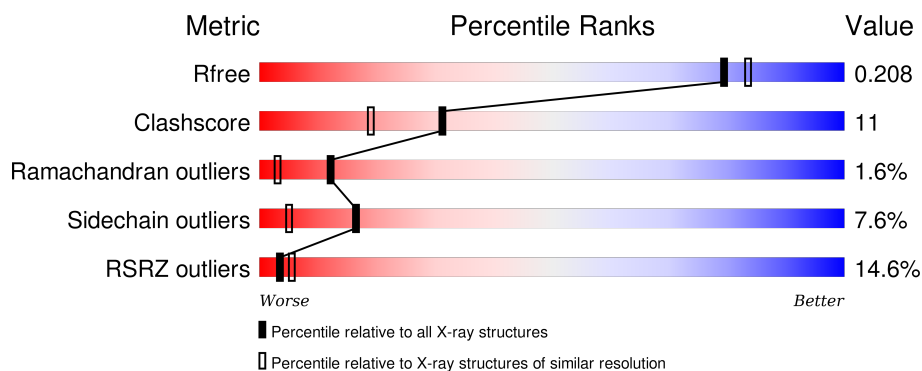
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION


The reported resolution of this entry is 1.95 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}	91344	1833 (1.96-1.96)
Clashscore	102246	1953 (1.96-1.96)
Ramachandran outliers	100387	1936 (1.96-1.96)
Sidechain outliers	100360	1936 (1.96-1.96)
RSRZ outliers	91569	1835 (1.96-1.96)

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 on the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. 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	403	

2 Entry composition [i](#)

There are 3 unique types of molecules in this entry. The entry contains 3549 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.

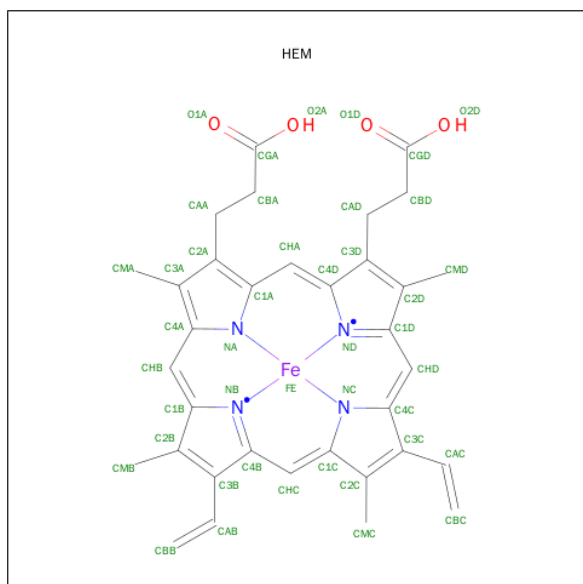
- Molecule 1 is a protein called Cytochrome P450 (Cytochrome P450 hydroxylase).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	390	3019	1906	540	562	11	0	0	0

There are 5 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	387	ILE	MET	ENGINEERED	UNP Q93H81
A	400	HIS	-	EXPRESSION TAG	UNP Q93H81
A	401	HIS	-	EXPRESSION TAG	UNP Q93H81
A	402	HIS	-	EXPRESSION TAG	UNP Q93H81
A	403	HIS	-	EXPRESSION TAG	UNP Q93H81

- Molecule 2 is PROTOPORPHYRIN IX CONTAINING FE (three-letter code: HEM) (formula: $C_{34}H_{32}FeN_4O_4$).



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

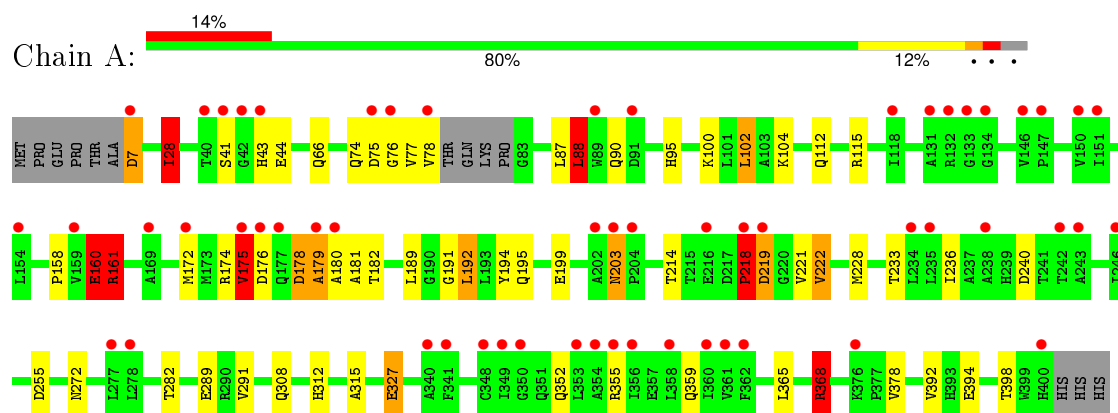
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	487	Total	O	0	0
			487	487		

3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors 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: Cytochrome P450 (Cytochrome P450 hydroxylase)



4 Data and refinement statistics

Property	Value	Source
Space group	P 43 21 2	Depositor
Cell constants a, b, c, α , β , γ	88.40 Å 88.40 Å 193.88 Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	38.75 – 1.95 38.74 – 1.95	Depositor EDS
% Data completeness (in resolution range)	99.8 (38.75-1.95) 99.8 (38.74-1.95)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.05	Depositor
$\langle I/\sigma(I) \rangle$ ¹	4.27 (at 1.95 Å)	Xtriage
Refinement program	REFMAC 5.2.0019	Depositor
R, R_{free}	0.190 , 0.211 0.189 , 0.208	Depositor DCC
R_{free} test set	2874 reflections (5.33%)	DCC
Wilson B-factor (Å ²)	36.7	Xtriage
Anisotropy	0.025	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 52.6	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtriage
Outliers	0 of 56795 reflections	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	3549	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 3.95% 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, 0.375 respectively for untwinned datasets, and 0.333, 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: HEM

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	0.72	1/3080 (0.0%)	0.77	7/4187 (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	1

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	179	ALA	C-N	10.22	1.57	1.34

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	368	ARG	NE-CZ-NH2	-6.91	116.85	120.30
1	A	28	ILE	CG1-CB-CG2	-6.45	97.20	111.40
1	A	368	ARG	NE-CZ-NH1	5.75	123.17	120.30
1	A	218	PRO	C-N-CA	5.31	134.97	121.70
1	A	102	LEU	CB-CG-CD2	5.28	119.97	111.00
1	A	160	GLU	C-N-CA	5.27	134.87	121.70
1	A	88	LEU	CA-CB-CG	5.04	126.89	115.30

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	160	GLU	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	3019	0	3000	63	0
2	A	43	0	30	5	0
3	A	487	0	0	12	0
All	All	3549	0	3030	66	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 11.

All (66) 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:218:PRO:HB2	1:A:219:ASP:HB2	1.28	1.14
1:A:77:VAL:HG12	1:A:78:VAL:HA	1.36	1.08
1:A:160:GLU:HB2	1:A:161:ARG:HB2	1.43	1.00
1:A:194:TYR:HD1	1:A:228:MET:CE	1.81	0.94
1:A:218:PRO:CB	1:A:219:ASP:HB2	1.97	0.93
1:A:87:LEU:H	1:A:90:GLN:HE21	1.16	0.92
1:A:272:ASN:OD1	3:A:1868:HOH:O	1.95	0.84
1:A:194:TYR:HD1	1:A:228:MET:HE2	1.42	0.83
1:A:112:GLN:HE21	1:A:115:ARG:HH12	1.26	0.82
1:A:160:GLU:CB	1:A:161:ARG:HB2	2.12	0.80
1:A:77:VAL:CG1	1:A:78:VAL:HA	2.11	0.79
1:A:7:ASP:OD1	1:A:7:ASP:N	2.16	0.79
1:A:88:LEU:O	3:A:1812:HOH:O	2.03	0.76
1:A:194:TYR:CD1	1:A:228:MET:HE2	2.21	0.75
1:A:95:HIS:HE1	2:A:1408:HEM:O1D	1.73	0.72
1:A:66:GLN:CD	1:A:291:VAL:HG21	2.11	0.71
1:A:194:TYR:CD1	1:A:228:MET:CE	2.71	0.69
1:A:41:SER:OG	1:A:43:HIS:HD2	1.76	0.68
1:A:222:VAL:HG23	1:A:222:VAL:O	1.95	0.67
1:A:158:PRO:O	1:A:161:ARG:HB3	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:112:GLN:NE2	1:A:115:ARG:HH12	1.95	0.64
2:A:1408:HEM:HHC	2:A:1408:HEM:HBB2	1.80	0.64
1:A:192:LEU:HD22	3:A:1675:HOH:O	2.00	0.62
1:A:359:GLN:CD	3:A:1699:HOH:O	2.37	0.62
1:A:7:ASP:N	1:A:44:GLU:OE1	2.33	0.62
1:A:194:TYR:HD1	1:A:228:MET:HE1	1.65	0.61
1:A:312:HIS:CD2	1:A:315:ALA:H	2.20	0.60
1:A:312:HIS:HD2	1:A:315:ALA:H	1.48	0.59
1:A:327:GLU:HG2	3:A:1881:HOH:O	2.03	0.58
1:A:77:VAL:HG11	3:A:1890:HOH:O	2.02	0.58
1:A:222:VAL:CG2	1:A:222:VAL:O	2.51	0.58
1:A:218:PRO:HB2	1:A:219:ASP:CB	2.19	0.56
1:A:112:GLN:HE21	1:A:115:ARG:NH1	2.02	0.56
1:A:219:ASP:HB3	3:A:1786:HOH:O	2.06	0.55
1:A:66:GLN:CD	1:A:291:VAL:CG2	2.75	0.54
1:A:160:GLU:HG3	3:A:1672:HOH:O	2.08	0.54
1:A:95:HIS:CE1	2:A:1408:HEM:O1D	2.56	0.54
1:A:218:PRO:CA	1:A:219:ASP:HB2	2.38	0.54
2:A:1408:HEM:HBC2	2:A:1408:HEM:HMC2	1.90	0.53
1:A:43:HIS:CE1	1:A:289:GLU:OE1	2.62	0.52
1:A:194:TYR:CD1	1:A:228:MET:HE1	2.43	0.51
1:A:255:ASP:OD1	3:A:1870:HOH:O	2.18	0.51
2:A:1408:HEM:HBC2	2:A:1408:HEM:CMC	2.41	0.50
1:A:77:VAL:HG22	1:A:172:MET:HE2	1.94	0.50
1:A:66:GLN:OE1	1:A:291:VAL:HG21	2.11	0.50
1:A:199:GLU:OE2	1:A:203:ASN:ND2	2.44	0.50
1:A:88:LEU:HD22	1:A:233:THR:HG23	1.94	0.50
1:A:327:GLU:H	1:A:327:GLU:CD	2.16	0.49
1:A:66:GLN:OE1	1:A:291:VAL:CG2	2.60	0.49
1:A:291:VAL:HG22	1:A:308:GLN:HE21	1.76	0.49
1:A:312:HIS:HE1	3:A:1641:HOH:O	1.96	0.49
1:A:368:ARG:HD2	3:A:1473:HOH:O	2.12	0.49
1:A:74:GLN:HG2	1:A:236:ILE:HG23	1.93	0.48
1:A:191:GLY:O	1:A:195:GLN:HG3	2.14	0.48
1:A:158:PRO:HD2	1:A:161:ARG:HG2	1.96	0.46
1:A:41:SER:OG	1:A:43:HIS:CD2	2.64	0.46
1:A:160:GLU:CA	1:A:161:ARG:HB2	2.46	0.46
1:A:174:ARG:O	1:A:175:VAL:C	2.54	0.45
1:A:76:GLY:HA2	1:A:182:THR:HG22	2.01	0.43
1:A:174:ARG:O	1:A:175:VAL:O	2.37	0.43
1:A:179:ALA:O	1:A:182:THR:HB	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:7:ASP:HA	3:A:1858:HOH:O	2.20	0.41
1:A:352:GLN:NE2	1:A:355:ARG:HH11	2.19	0.41
1:A:28:ILE:HD13	1:A:28:ILE:HG21	1.60	0.40
1:A:178:ASP:O	1:A:179:ALA:C	2.58	0.40
1:A:180:ALA:O	1:A:181:ALA:C	2.59	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	386/403 (96%)	367 (95%)	13 (3%)	6 (2%)	12 3

All (6) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	175	VAL
1	A	219	ASP
1	A	161	ARG
1	A	75	ASP
1	A	282	THR
1	A	218	PRO

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	316/328 (96%)	292 (92%)	24 (8%)	16 5

All (24) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	7	ASP
1	A	28	ILE
1	A	88	LEU
1	A	100	LYS
1	A	102	LEU
1	A	104	LYS
1	A	161	ARG
1	A	175	VAL
1	A	176	ASP
1	A	178	ASP
1	A	189	LEU
1	A	192	LEU
1	A	203	ASN
1	A	214	THR
1	A	221	VAL
1	A	222	VAL
1	A	240	ASP
1	A	327	GLU
1	A	365	LEU
1	A	368	ARG
1	A	378	VAL
1	A	392	VAL
1	A	394	GLU
1	A	398	THR

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (10) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	43	HIS
1	A	90	GLN
1	A	95	HIS
1	A	112	GLN
1	A	119	GLN
1	A	195	GLN
1	A	285	GLN
1	A	308	GLN
1	A	312	HIS

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Mol	Chain	Res	Type
1	A	352	GLN

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 carbohydrates in this entry.

5.6 Ligand geometry [i](#)

1 ligand is modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# $ Z > 2$	Counts	RMSZ	# $ Z > 2$
2	HEM	A	1408	1	30,50,50	2.45	9 (30%)	24,82,82	2.19	8 (33%)

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
2	HEM	A	1408	1	-	0/10/54/54	0/0/8/8

All (9) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	1408	HEM	C3B-C4B	-6.90	1.45	1.51
2	A	1408	HEM	C3D-C4D	-5.86	1.44	1.51
2	A	1408	HEM	C2C-C1C	-5.01	1.43	1.52
2	A	1408	HEM	C2D-C1D	-2.43	1.43	1.51
2	A	1408	HEM	C2B-C1B	-2.03	1.45	1.51
2	A	1408	HEM	C3B-CAB	2.52	1.56	1.51
2	A	1408	HEM	FE-ND	2.59	2.11	1.97
2	A	1408	HEM	C4C-NC	2.80	1.39	1.36
2	A	1408	HEM	C1C-NC	4.14	1.41	1.36

All (8) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	1408	HEM	CBD-CAD-C3D	-2.73	105.61	113.55
2	A	1408	HEM	C4B-CHC-C1C	-2.56	121.55	125.82
2	A	1408	HEM	CMB-C2B-C3B	2.45	122.65	116.53
2	A	1408	HEM	C2D-C3D-C4D	2.50	105.75	101.50
2	A	1408	HEM	CMD-C2D-C3D	3.05	127.84	114.35
2	A	1408	HEM	CAD-C3D-C4D	4.11	126.95	112.47
2	A	1408	HEM	CMC-C2C-C3C	4.62	128.06	116.53
2	A	1408	HEM	CAD-C3D-C2D	4.88	127.23	113.22

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

1 monomer is involved in 5 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	1408	HEM	5	0

5.7 Other polymers ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

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	390/403 (96%)	0.65	57 (14%) 3 5	20, 28, 42, 51	0

All (57) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	218	PRO	6.8
1	A	169	ALA	6.8
1	A	175	VAL	4.6
1	A	358	LEU	4.5
1	A	76	GLY	4.5
1	A	176	ASP	4.4
1	A	353	LEU	4.2
1	A	356	ILE	3.8
1	A	234	LEU	3.7
1	A	177	GLN	3.7
1	A	180	ALA	3.6
1	A	131	ALA	3.5
1	A	202	ALA	3.5
1	A	172	MET	3.4
1	A	179	ALA	3.3
1	A	134	GLY	3.3
1	A	354	ALA	3.2
1	A	159	VAL	3.1
1	A	151	ILE	3.1
1	A	348	CYS	3.1
1	A	278	LEU	3.0
1	A	78	VAL	3.0
1	A	203	ASN	3.0
1	A	341	PHE	3.0
1	A	133	GLY	3.0
1	A	360	ILE	3.0
1	A	150	VAL	2.9

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Mol	Chain	Res	Type	RSRZ
1	A	350	GLY	2.8
1	A	41	SER	2.7
1	A	216	GLU	2.7
1	A	89	TRP	2.7
1	A	40	THR	2.7
1	A	75	ASP	2.7
1	A	118	ILE	2.6
1	A	154	LEU	2.6
1	A	219	ASP	2.6
1	A	146	VAL	2.5
1	A	361	VAL	2.5
1	A	91	ASP	2.5
1	A	238	ALA	2.5
1	A	277	LEU	2.5
1	A	349	ILE	2.4
1	A	132	ARG	2.4
1	A	400	HIS	2.4
1	A	376	LYS	2.4
1	A	7	ASP	2.3
1	A	43	HIS	2.2
1	A	242	THR	2.2
1	A	340	ALA	2.2
1	A	42	GLY	2.2
1	A	355	ARG	2.2
1	A	235	LEU	2.1
1	A	204	PRO	2.1
1	A	243	ALA	2.1
1	A	362	PHE	2.1
1	A	147	PRO	2.1
1	A	246	ILE	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 carbohydrates 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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. 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	LLDF	B-factors(\AA^2)	Q<0.9
2	HEM	A	1408	43/43	0.97	0.16	-0.12	26,29,36,43	0

6.5 Other polymers [i](#)

There are no such residues in this entry.