



Full wwPDB X-ray Structure Validation Report i

Jan 31, 2016 – 06:49 PM GMT

PDB ID : 1CPG
Title : A CATION BINDING MOTIF STABILIZES THE COMPOUND I RADICAL OF CYTOCHROME C PEROXIDASE
Authors : Miller, M.A.; Han, G.W.; Kraut, J.
Deposited on : 1994-08-18
Resolution : 2.20 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 i symbol.

The following versions of software and data (see [references](#) ①) 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

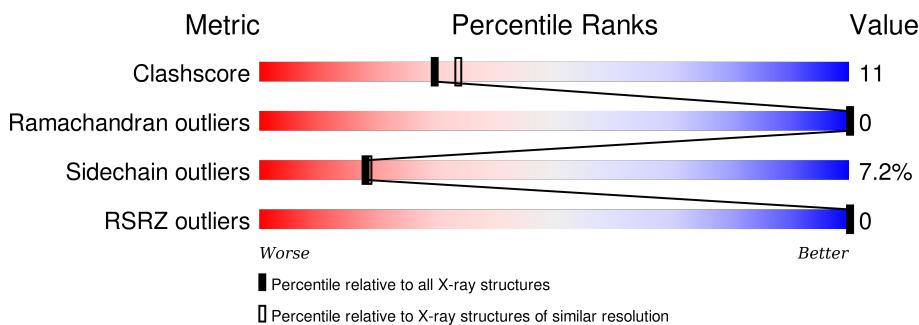
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.20 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))
Clashscore	102246	4477 (2.20-2.20)
Ramachandran outliers	100387	4404 (2.20-2.20)
Sidechain outliers	100360	4405 (2.20-2.20)
RSRZ outliers	91569	3781 (2.20-2.20)

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	296	62%	30%	5%	.

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 2581 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 C PEROXIDASE.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	291	Total	C 2345	N 1495	O 392	S 452	6	0	0

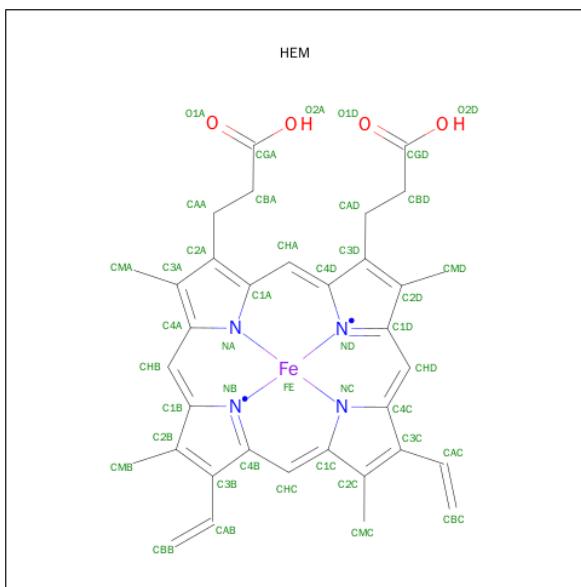
There are 3 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	53	ILE	THR	CONFLICT	UNP P00431
A	152	GLY	ASP	CONFLICT	UNP P00431
A	191	GLN	TRP	CONFLICT	UNP P00431

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

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

- Molecule 3 is PROTOPORPHYRIN IX CONTAINING FE (three-letter code: HEM) (formula: C₃₄H₃₂FeN₄O₄).



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

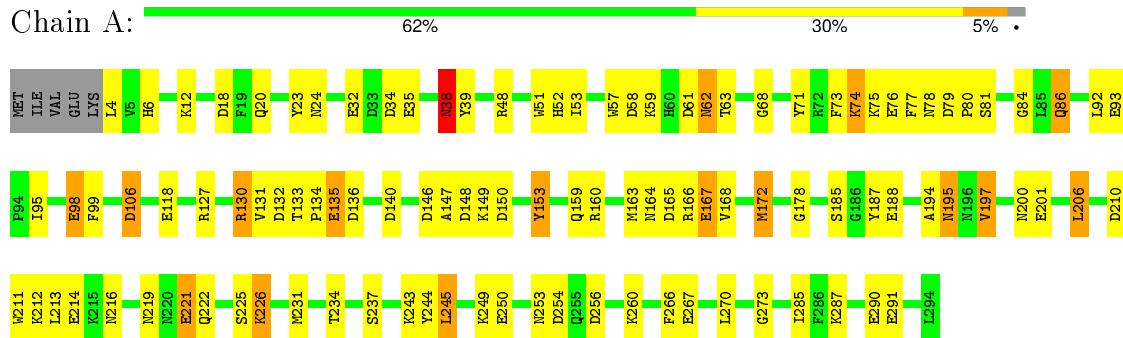
- Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	192	Total O 192 192	0	0

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 C PEROXIDASE



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	105.17 Å 74.18 Å 45.22 Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	20.00 – 2.20 22.73 – 2.12	Depositor EDS
% Data completeness (in resolution range)	(Not available) (20.00-2.20) 81.6 (22.73-2.12)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ ¹	2.43 (at 2.11 Å)	Xtriage
Refinement program	TNT, X-PLOR	Depositor
R , R_{free}	0.164 , (Not available) 0.159 , (Not available)	Depositor DCC
R_{free} test set	No test flags present.	DCC
Wilson B-factor (Å ²)	22.5	Xtriage
Anisotropy	0.630	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.29 , 91.4	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning ²	$< L > = 0.48$, $< L^2 > = 0.31$	Xtriage
Outliers	0 of 17021 reflections	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	2581	wwPDB-VP
Average B, all atoms (Å ²)	28.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.29% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $< |L| >$, $< L^2 >$ for acentric reflections are 0.5, 0.375 respectively for untwinned datasets, and 0.333, 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: HEM, K

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	0.94	13/2409 (0.5%)	1.58	43/3259 (1.3%)

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	1	1

All (13) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	214	GLU	CD-OE1	6.11	1.32	1.25
1	A	221	GLU	CD-OE1	5.83	1.32	1.25
1	A	291	GLU	CD-OE1	5.73	1.31	1.25
1	A	290	GLU	CD-OE1	5.51	1.31	1.25
1	A	76	GLU	CD-OE1	5.48	1.31	1.25
1	A	98	GLU	CD-OE1	5.43	1.31	1.25
1	A	118	GLU	CD-OE1	5.41	1.31	1.25
1	A	167	GLU	CD-OE1	5.41	1.31	1.25
1	A	32	GLU	CD-OE1	5.25	1.31	1.25
1	A	201	GLU	CD-OE2	5.25	1.31	1.25
1	A	250	GLU	CD-OE2	5.20	1.31	1.25
1	A	135	GLU	CD-OE1	5.17	1.31	1.25
1	A	267	GLU	CD-OE1	5.11	1.31	1.25

All (43) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	127	ARG	NE-CZ-NH1	12.70	126.65	120.30
1	A	127	ARG	NE-CZ-NH2	-10.49	115.06	120.30
1	A	130	ARG	NE-CZ-NH1	9.59	125.10	120.30
1	A	34	ASP	CB-CG-OD1	9.54	126.89	118.30
1	A	58	ASP	CB-CG-OD2	-8.89	110.30	118.30
1	A	34	ASP	CB-CG-OD2	-8.45	110.69	118.30
1	A	150	ASP	CB-CG-OD1	8.44	125.90	118.30
1	A	165	ASP	CB-CG-OD2	-8.25	110.88	118.30
1	A	18	ASP	CB-CG-OD1	-8.06	111.05	118.30
1	A	146	ASP	CB-CG-OD1	-8.06	111.05	118.30
1	A	166	ARG	NE-CZ-NH1	7.97	124.28	120.30
1	A	18	ASP	CB-CG-OD2	7.51	125.06	118.30
1	A	254	ASP	CB-CG-OD2	-7.45	111.59	118.30
1	A	256	ASP	CB-CG-OD2	-7.45	111.60	118.30
1	A	148	ASP	CB-CG-OD1	7.42	124.98	118.30
1	A	130	ARG	NE-CZ-NH2	-7.37	116.61	120.30
1	A	48	ARG	NE-CZ-NH2	-7.27	116.66	120.30
1	A	160	ARG	NE-CZ-NH1	7.18	123.89	120.30
1	A	165	ASP	CB-CG-OD1	7.12	124.71	118.30
1	A	38	ASN	N-CA-CB	6.95	123.10	110.60
1	A	150	ASP	CB-CG-OD2	-6.92	112.07	118.30
1	A	132	ASP	CB-CG-OD1	6.80	124.42	118.30
1	A	58	ASP	CB-CG-OD1	6.71	124.34	118.30
1	A	48	ARG	NE-CZ-NH1	6.62	123.61	120.30
1	A	254	ASP	CB-CG-OD1	6.59	124.23	118.30
1	A	127	ARG	CD-NE-CZ	6.59	132.82	123.60
1	A	106	ASP	CB-CG-OD2	-6.55	112.40	118.30
1	A	148	ASP	CB-CG-OD2	-6.55	112.41	118.30
1	A	146	ASP	CB-CG-OD2	6.36	124.02	118.30
1	A	38	ASN	CA-CB-CG	-6.31	99.52	113.40
1	A	132	ASP	CB-CG-OD2	-6.21	112.71	118.30
1	A	106	ASP	CB-CG-OD1	6.08	123.78	118.30
1	A	256	ASP	CB-CG-OD1	6.03	123.72	118.30
1	A	160	ARG	NE-CZ-NH2	-5.89	117.36	120.30
1	A	185	SER	N-CA-CB	-5.48	102.28	110.50
1	A	61	ASP	CB-CG-OD2	-5.47	113.38	118.30
1	A	136	ASP	CB-CG-OD1	-5.35	113.49	118.30
1	A	244	TYR	CB-CG-CD1	5.32	124.19	121.00
1	A	93	GLU	CB-CA-C	5.27	120.93	110.40
1	A	79	ASP	CB-CG-OD2	-5.25	113.58	118.30
1	A	153	TYR	CB-CG-CD2	5.24	124.14	121.00
1	A	187	TYR	N-CA-CB	5.23	120.01	110.60
1	A	63	THR	CA-CB-CG2	-5.05	105.33	112.40

All (1) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
1	A	38	ASN	CA

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	38	ASN	Sidechain

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	2345	0	2226	52	0
2	A	1	0	0	0	0
3	A	43	0	30	1	0
4	A	192	0	0	3	0
All	All	2581	0	2256	52	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 (52) 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:20:GLN:HE22	1:A:287:LYS:H	1.07	1.01
1:A:216:ASN:HD22	1:A:222:GLN:NE2	1.57	1.01
1:A:195:ASN:H	1:A:195:ASN:HD22	1.11	0.95
1:A:216:ASN:HD22	1:A:222:GLN:HE21	1.19	0.91
1:A:35:GLU:HG2	1:A:39:TYR:CE2	2.15	0.82
1:A:195:ASN:N	1:A:195:ASN:HD22	1.73	0.79
1:A:216:ASN:ND2	1:A:222:GLN:HE21	1.87	0.72
1:A:195:ASN:ND2	1:A:195:ASN:H	1.89	0.70
1:A:20:GLN:NE2	1:A:287:LYS:H	1.88	0.67
1:A:213:LEU:HD11	1:A:221:GLU:HB3	1.78	0.65
1:A:62:ASN:HD21	1:A:273:GLY:HA2	1.61	0.64
1:A:59:LYS:HE3	1:A:159:GLN:O	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:20:GLN:HE22	1:A:287:LYS:N	1.88	0.61
1:A:149:LYS:HG2	1:A:153:TYR:CG	2.36	0.60
1:A:260:LYS:HD2	4:A:716:HOH:O	2.03	0.59
1:A:149:LYS:HG2	1:A:153:TYR:CD1	2.39	0.57
1:A:216:ASN:ND2	1:A:222:GLN:NE2	2.40	0.55
1:A:98:GLU:HB3	1:A:99:PHE:CD1	2.42	0.55
1:A:245:LEU:O	1:A:245:LEU:HD22	2.07	0.54
1:A:84:GLY:N	1:A:86:GLN:OE1	2.39	0.54
1:A:245:LEU:O	1:A:249:LYS:HG3	2.07	0.54
1:A:194:ALA:HB1	1:A:197:VAL:HG13	1.90	0.54
1:A:57:TRP:HE1	1:A:62:ASN:ND2	2.06	0.53
1:A:226:LYS:HG2	4:A:625:HOH:O	2.08	0.53
1:A:243:LYS:NZ	4:A:948:HOH:O	2.43	0.52
1:A:53:ILE:HG22	1:A:71:TYR:HB2	1.92	0.51
1:A:106:ASP:OD1	1:A:130:ARG:HG3	2.10	0.51
1:A:163:MET:HA	1:A:167:GLU:OE1	2.12	0.49
1:A:75:LYS:HD3	1:A:140:ASP:HA	1.93	0.49
1:A:194:ALA:HB1	1:A:197:VAL:CG1	2.42	0.49
1:A:178:GLY:HA3	3:A:296:HEM:O2D	2.13	0.49
1:A:188:GLU:H	1:A:222:GLN:HE22	1.63	0.47
1:A:71:TYR:O	1:A:77:PHE:HB2	2.15	0.47
1:A:133:THR:HB	1:A:134:PRO:HD2	1.97	0.46
1:A:92:LEU:O	1:A:95:ILE:HB	2.16	0.46
1:A:211:TRP:CZ3	1:A:225:SER:HB3	2.52	0.45
1:A:38:ASN:ND2	1:A:38:ASN:O	2.48	0.45
1:A:57:TRP:HE1	1:A:62:ASN:HD22	1.63	0.44
1:A:147:ALA:O	1:A:234:THR:HG23	2.17	0.43
1:A:78:ASN:O	1:A:80:PRO:HD3	2.18	0.43
1:A:73:PHE:CE2	1:A:135:GLU:HA	2.53	0.43
1:A:86:GLN:H	1:A:86:GLN:CD	2.22	0.43
1:A:172:MET:HE2	1:A:172:MET:HB2	1.89	0.43
1:A:74:LYS:HA	1:A:74:LYS:HD3	1.08	0.43
1:A:23:TYR:HD1	1:A:24:ASN:HD22	1.66	0.43
1:A:266:PHE:O	1:A:270:LEU:HG	2.19	0.43
1:A:4:LEU:HD22	1:A:6:HIS:CE1	2.55	0.42
1:A:133:THR:HA	1:A:134:PRO:HD3	1.84	0.42
1:A:164:ASN:O	1:A:168:VAL:HG23	2.20	0.41
1:A:206:LEU:HD13	1:A:231:MET:SD	2.61	0.41
1:A:52:HIS:HE1	1:A:81:SER:O	2.04	0.40
1:A:68:GLY:HA2	1:A:131:VAL:O	2.22	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	289/296 (98%)	282 (98%)	7 (2%)	0	100 100

There are no Ramachandran outliers to report.

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	249/254 (98%)	231 (93%)	18 (7%)	18 18

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

Mol	Chain	Res	Type
1	A	12	LYS
1	A	51	TRP
1	A	62	ASN
1	A	74	LYS
1	A	86	GLN
1	A	172	MET
1	A	195	ASN
1	A	197	VAL
1	A	200	ASN
1	A	206	LEU
1	A	210	ASP
1	A	212	LYS
1	A	219	ASN

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Mol	Chain	Res	Type
1	A	226	LYS
1	A	237	SER
1	A	245	LEU
1	A	253	ASN
1	A	285	ILE

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	6	HIS
1	A	20	GLN
1	A	24	ASN
1	A	62	ASN
1	A	87	ASN
1	A	195	ASN
1	A	200	ASN
1	A	219	ASN
1	A	222	GLN
1	A	292	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)

Of 2 ligands modelled in this entry, 1 is 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	HEM	A	296	1,4	30,50,50	2.52	6 (20%)	24,82,82	2.79	11 (45%)

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	HEM	A	296	1,4	-	0/10/54/54	0/0/8/8

All (6) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	296	HEM	C3B-C4B	-8.66	1.44	1.51
3	A	296	HEM	C2D-C3D	-6.69	1.34	1.54
3	A	296	HEM	C3D-C4D	-5.03	1.45	1.51
3	A	296	HEM	C2C-C1C	-3.95	1.45	1.52
3	A	296	HEM	C2B-C1B	-2.08	1.45	1.51
3	A	296	HEM	C1C-NC	2.39	1.38	1.36

All (11) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	296	HEM	C4B-CHC-C1C	-5.56	116.53	125.82
3	A	296	HEM	CAA-C2A-C1A	-4.50	122.12	127.01
3	A	296	HEM	CMA-C3A-C4A	-3.64	122.35	128.36
3	A	296	HEM	C3B-CAB-CBB	-2.78	120.20	124.46
3	A	296	HEM	C3B-C4B-CHC	-2.31	119.92	123.16
3	A	296	HEM	CMD-C2D-C3D	2.75	126.49	114.35
3	A	296	HEM	CAD-C3D-C4D	3.14	123.54	112.47
3	A	296	HEM	C2D-C3D-C4D	3.52	107.47	101.50
3	A	296	HEM	CMC-C2C-C3C	4.18	126.96	116.53
3	A	296	HEM	CMB-C2B-C3B	4.19	126.99	116.53
3	A	296	HEM	CAD-C3D-C2D	5.28	128.39	113.22

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	296	HEM	1	0

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, 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	291/296 (98%)	-0.31	0 [100] [100]	15, 25, 45, 61	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 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(Å ²)	Q<0.9
3	HEM	A	296	43/43	0.96	0.13	0.26	11,20,26,30	0
2	K	A	975	1/1	0.97	0.09	-1.30	36,36,36,36	0

6.5 Other polymers i

There are no such residues in this entry.