



wwPDB X-ray Structure Validation Summary Report ⓘ

Oct 31, 2017 – 01:16 PM EDT

PDB ID : 3PQ5
Title : Structure of I274C variant of E. coli KatE[] - Images 19-24
Authors : Loewen, P.C.; Jha, V.; Louis, S.; Chelikani, P.; Carpena, X.; Fita, I.
Deposited on : unknown
Resolution : 1.80 Å(reported)

This is a wwPDB X-ray Structure Validation Summary 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 : 1.7.2 (RC1), CSD as538be (2017)
Xtriage (Phenix) : 1.9-1692
EDS : rb-20030345
Percentile statistics : 20161228.v01 (using entries in the PDB archive December 28th 2016)
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) : rb-20030345

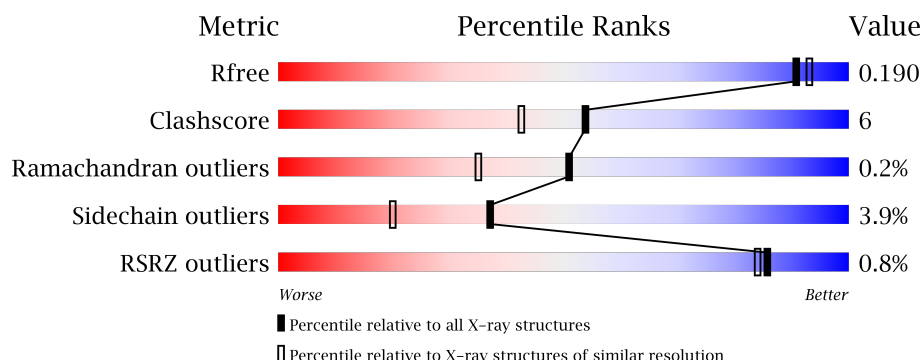
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.80 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}	100719	4827 (1.80-1.80)
Clashscore	112137	5742 (1.80-1.80)
Ramachandran outliers	110173	5676 (1.80-1.80)
Sidechain outliers	110143	5675 (1.80-1.80)
RSRZ outliers	101464	4906 (1.80-1.80)

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	753	 85% 10% . .
1	B	753	 85% 10% . .
1	C	753	 83% 12% . .
1	D	753	 86% 9% . .

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit crite-

ria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
4	H2S	A	754	-	-	X	X
4	H2S	B	754	-	-	X	X
4	H2S	C	754	-	-	X	X
4	H2S	D	754	-	-	X	X

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 26829 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.

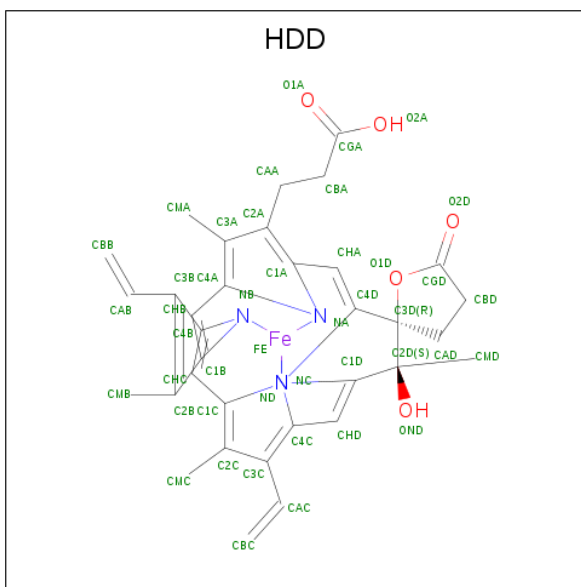
- Molecule 1 is a protein called Catalase HPIL.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	726	Total	C	N	O	S	0	5	0
			5755	3652	1009	1083	11			
1	B	726	Total	C	N	O	S	0	5	0
			5757	3654	1009	1083	11			
1	C	726	Total	C	N	O	S	0	2	0
			5747	3649	1007	1080	11			
1	D	726	Total	C	N	O	S	0	9	0
			5771	3662	1013	1085	11			

There are 12 discrepancies between the modelled and reference sequences:

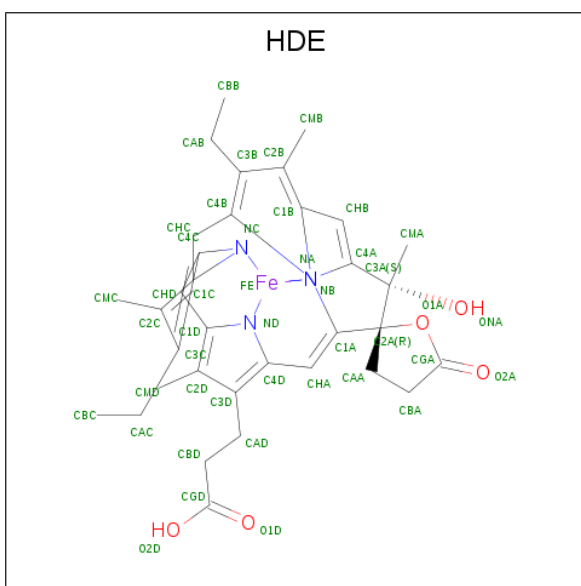
Chain	Residue	Modelled	Actual	Comment	Reference
A	274	CYS	ILE	ENGINEERED MUTATION	UNP P21179
A	438	ALA	CYS	ENGINEERED MUTATION	UNP P21179
A	669	ALA	CYS	ENGINEERED MUTATION	UNP P21179
B	274	CYS	ILE	ENGINEERED MUTATION	UNP P21179
B	438	ALA	CYS	ENGINEERED MUTATION	UNP P21179
B	669	ALA	CYS	ENGINEERED MUTATION	UNP P21179
C	274	CYS	ILE	ENGINEERED MUTATION	UNP P21179
C	438	ALA	CYS	ENGINEERED MUTATION	UNP P21179
C	669	ALA	CYS	ENGINEERED MUTATION	UNP P21179
D	274	CYS	ILE	ENGINEERED MUTATION	UNP P21179
D	438	ALA	CYS	ENGINEERED MUTATION	UNP P21179
D	669	ALA	CYS	ENGINEERED MUTATION	UNP P21179

- Molecule 2 is CIS-HEME D HYDROXYCHLORIN GAMMA-SPIROLACTONE (three-letter code: HDD) (formula: C₃₄H₃₂FeN₄O₅).



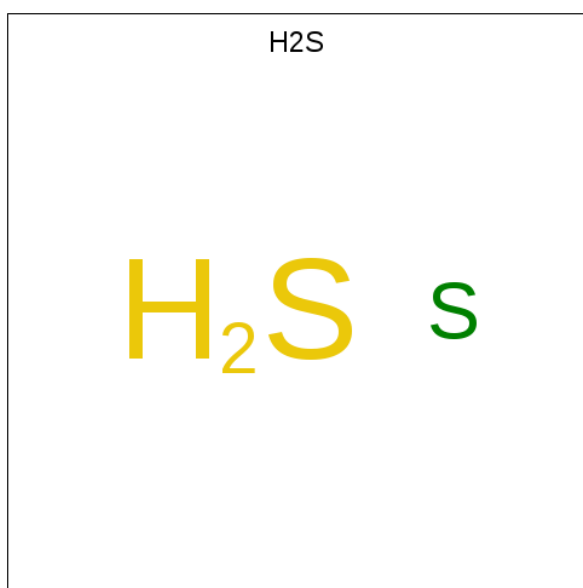
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
2	A	1	Total	C	Fe	N	O	0	1
			44	34	1	4	5		
2	B	1	Total	C	Fe	N	O	0	1
			44	34	1	4	5		
2	C	1	Total	C	Fe	N	O	0	1
			44	34	1	4	5		
2	D	1	Total	C	Fe	N	O	0	1
			44	34	1	4	5		

- Molecule 3 is CIS-HEME D HYDROXYCHLORIN GAMMA-SPIROLACTONE 17R, 18S (three-letter code: HDE) (formula: $C_{34}H_{38}FeN_4O_5$).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	A	1	Total 44	C 34	Fe 1	N 4	O 5	0	1
3	B	1	Total 44	C 34	Fe 1	N 4	O 5	0	1
3	C	1	Total 44	C 34	Fe 1	N 4	O 5	0	1
3	D	1	Total 44	C 34	Fe 1	N 4	O 5	0	1

- Molecule 4 is HYDROSULFURIC ACID (three-letter code: H2S) (formula: H₂S).



Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	1	Total 1	S 1	0	0
4	B	1	Total 1	S 1	0	0
4	C	1	Total 1	S 1	0	0
4	D	1	Total 1	S 1	0	0

- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	893	Total 893	O 893	0	0
5	B	790	Total 790	O 790	0	0

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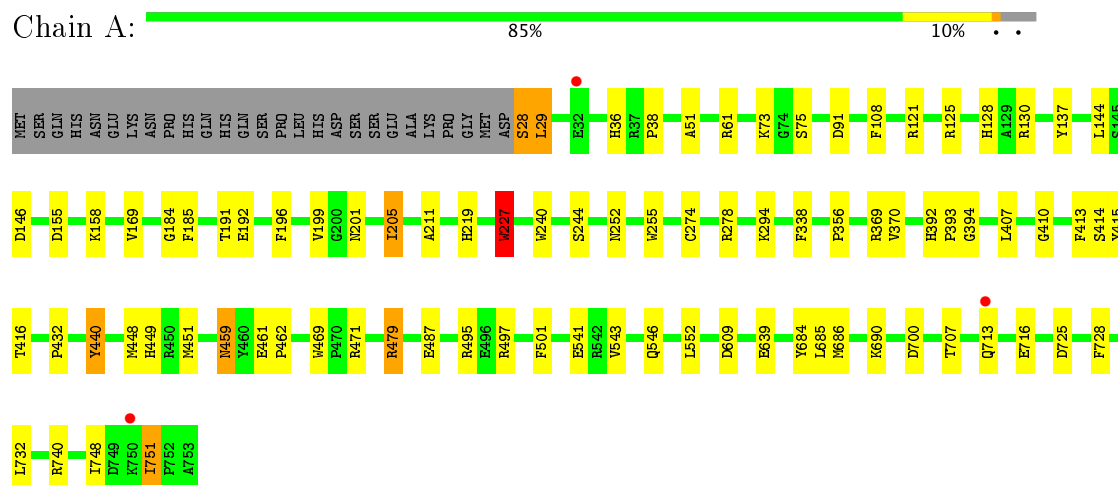
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	C	850	Total	O	0	0
			850	850		
5	D	910	Total	O	0	0
			910	910		

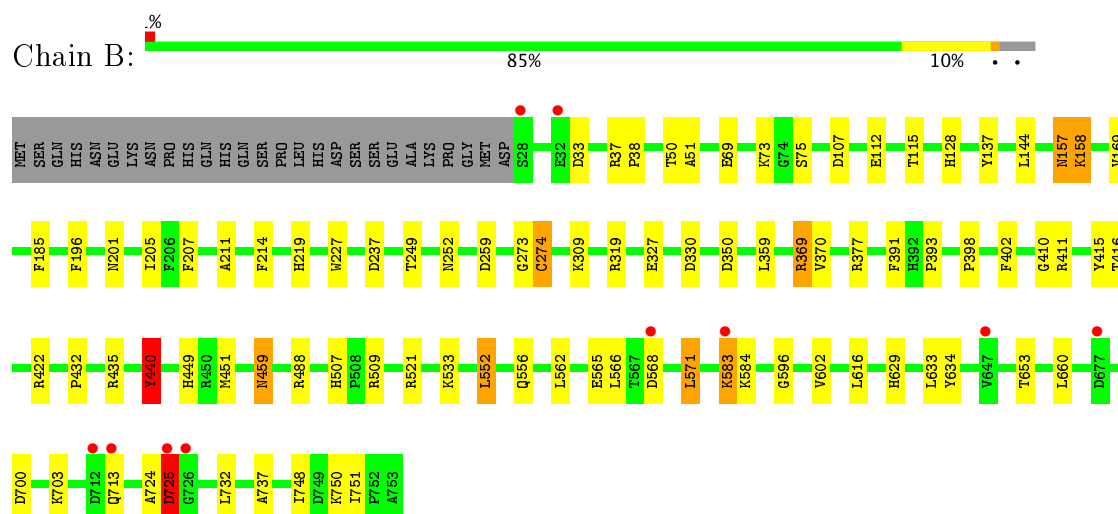
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of 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.

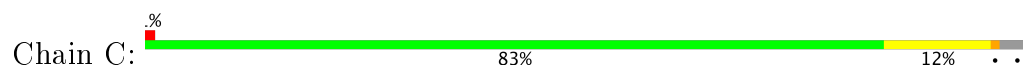
• Molecule 1: Catalase HP11

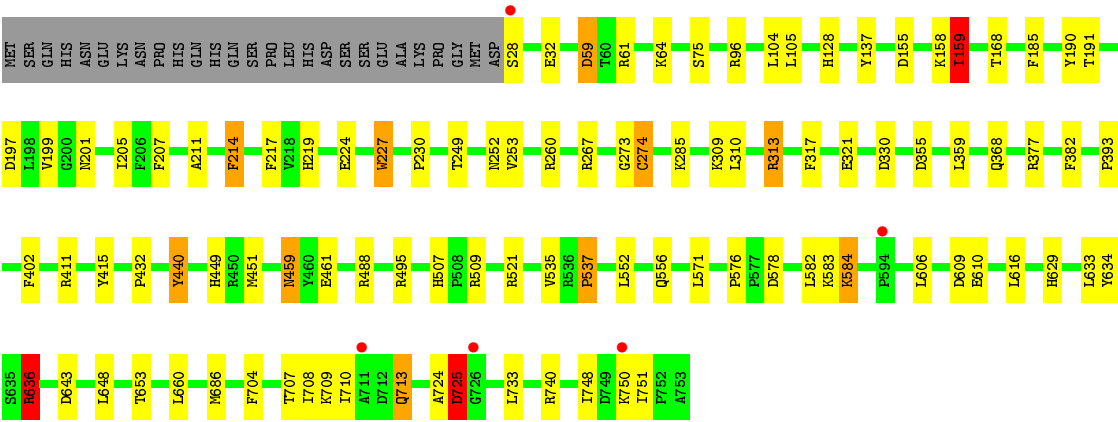


• Molecule 1: Catalase HP11

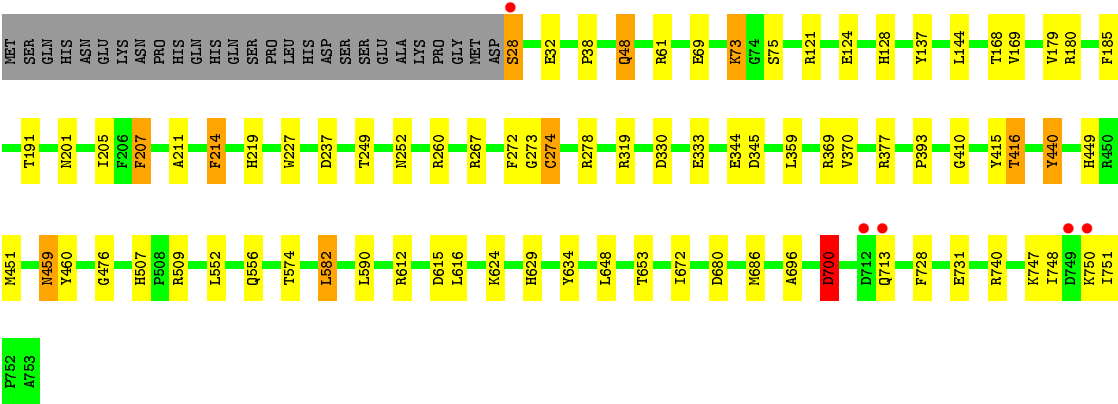
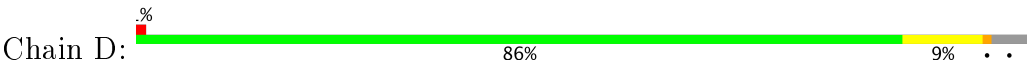


• Molecule 1: Catalase HP11





● Molecule 1: Catalase HP1I



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	93.50Å 133.02Å 122.67Å 90.00° 109.40° 90.00°	Depositor
Resolution (Å)	31.96 – 1.80 31.68 – 1.80	Depositor EDS
% Data completeness (in resolution range)	92.7 (31.96-1.80) 92.7 (31.68-1.80)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.15	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.34 (at 1.79Å)	Xtriage
Refinement program	REFMAC	Depositor
R, R_{free}	0.143 , 0.190 0.143 , 0.190	Depositor DCC
R_{free} test set	12197 reflections (5.27%)	DCC
Wilson B-factor (Å ²)	11.5	Xtriage
Anisotropy	0.011	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 47.2	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	0.028 for h,-k,-h-l	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	26829	wwPDB-VP
Average B, all atoms (Å ²)	14.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.64% 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: HDE, HDD, H2S

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	1.20	11/5932 (0.2%)	0.99	16/8064 (0.2%)
1	B	1.14	8/5931 (0.1%)	0.96	10/8062 (0.1%)
1	C	1.14	7/5908 (0.1%)	0.95	13/8033 (0.2%)
1	D	1.20	11/5966 (0.2%)	0.98	14/8109 (0.2%)
All	All	1.17	37/23737 (0.2%)	0.97	53/32268 (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	C	0	2

The worst 5 of 37 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	440	TYR	CE1-CZ	7.47	1.48	1.38
1	A	255	TRP	CE3-CZ3	7.23	1.50	1.38
1	A	227	TRP	CE3-CZ3	7.02	1.50	1.38
1	B	137	TYR	CD1-CE1	6.92	1.49	1.39
1	D	272	PHE	CE2-CZ	6.87	1.50	1.37

The worst 5 of 53 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	495	ARG	NE-CZ-NH1	9.48	125.04	120.30
1	A	495	ARG	NE-CZ-NH2	-9.41	115.60	120.30
1	A	479	ARG	NE-CZ-NH1	7.21	123.90	120.30
1	D	509	ARG	NE-CZ-NH1	7.13	123.86	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	636	ARG	NE-CZ-NH2	-7.00	116.80	120.30

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	C	724	ALA	Peptide
1	C	725	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	5755	0	5582	61	0
1	B	5757	0	5587	60	0
1	C	5747	0	5577	71	1
1	D	5771	0	5598	46	0
2	A	44	0	31	11	0
2	B	44	0	31	17	0
2	C	44	0	31	15	0
2	D	44	0	31	10	0
3	A	44	0	36	12	0
3	B	44	0	36	11	0
3	C	44	0	36	13	0
3	D	44	0	36	7	0
4	A	1	0	0	7	0
4	B	1	0	0	7	0
4	C	1	0	0	6	0
4	D	1	0	0	7	0
5	A	893	0	0	14	2
5	B	790	0	0	11	0
5	C	850	0	0	24	0
5	D	910	0	0	18	2
All	All	26829	0	22612	280	3

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 6.

The worst 5 of 280 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:C:274:CYS:HB3	4:C:754:H2S:S	1.32	1.65
1:D:274:CYS:HB3	4:D:754:H2S:S	1.35	1.64
1:A:274:CYS:HB3	4:A:754:H2S:S	1.38	1.63
1:B:274:CYS:HB3	4:B:754:H2S:S	1.41	1.60
2:C:760[A]:HDD:HBB2	4:C:754:H2S:S	1.40	1.58

All (3) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:584:LYS:NZ	5:A:1624:HOH:O[1_554]	2.13	0.07
5:A:3241:HOH:O	5:D:2457:HOH:O[2_646]	2.14	0.06
5:D:2178:HOH:O	5:D:2976:HOH:O[1_655]	2.18	0.02

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	729/753 (97%)	707 (97%)	21 (3%)	1 (0%)	55	38
1	B	729/753 (97%)	705 (97%)	22 (3%)	2 (0%)	44	29
1	C	726/753 (96%)	702 (97%)	22 (3%)	2 (0%)	44	29
1	D	733/753 (97%)	713 (97%)	19 (3%)	1 (0%)	55	38
All	All	2917/3012 (97%)	2827 (97%)	84 (3%)	6 (0%)	51	35

5 of 6 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	725	ASP
1	A	75	SER

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Mol	Chain	Res	Type
1	C	75	SER
1	B	75	SER
1	D	75	SER

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	614/634 (97%)	598 (97%)	16 (3%)	51	36
1	B	614/634 (97%)	589 (96%)	25 (4%)	35	18
1	C	611/634 (96%)	580 (95%)	31 (5%)	28	12
1	D	618/634 (98%)	592 (96%)	26 (4%)	34	17
All	All	2457/2536 (97%)	2359 (96%)	98 (4%)	37	19

5 of 98 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	C	185	PHE
1	C	440	TYR
1	D	582	LEU
1	C	191	THR
1	C	252	ASN

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 23 such sidechains are listed below:

Mol	Chain	Res	Type
1	C	252	ASN
1	C	507	HIS
1	D	629	HIS
1	C	459	ASN
1	C	556	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 carbohydrates in this entry.

5.6 Ligand geometry ⓘ

Of 12 ligands modelled in this entry, 4 are modelled with single atom - 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
2	HDD	A	760[A]	1,5	39,52,52	2.51	15 (38%)	25,89,89	2.24	9 (36%)
3	HDE	A	761[B]	1,5	41,52,52	2.89	16 (39%)	35,89,89	2.86	17 (48%)
2	HDD	B	760[A]	1,5	39,52,52	2.08	13 (33%)	25,89,89	2.76	10 (40%)
3	HDE	B	761[B]	1,5	41,52,52	2.87	16 (39%)	35,89,89	2.81	15 (42%)
2	HDD	C	760[A]	1,5	39,52,52	2.21	13 (33%)	25,89,89	2.53	10 (40%)
3	HDE	C	761[B]	1,5	41,52,52	2.57	16 (39%)	35,89,89	2.85	14 (40%)
2	HDD	D	760[A]	1,5	39,52,52	2.43	16 (41%)	25,89,89	2.17	9 (36%)
3	HDE	D	761[B]	1,5	41,52,52	2.77	15 (36%)	35,89,89	2.87	20 (57%)

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	HDD	A	760[A]	1,5	-	0/3/89/89	0/1/9/9
3	HDE	A	761[B]	1,5	-	2/7/89/89	0/1/9/9
2	HDD	B	760[A]	1,5	-	0/3/89/89	0/1/9/9
3	HDE	B	761[B]	1,5	-	2/7/89/89	0/1/9/9
2	HDD	C	760[A]	1,5	-	0/3/89/89	0/1/9/9
3	HDE	C	761[B]	1,5	-	1/7/89/89	0/1/9/9
2	HDD	D	760[A]	1,5	-	0/3/89/89	0/1/9/9
3	HDE	D	761[B]	1,5	-	1/7/89/89	0/1/9/9

The worst 5 of 120 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	761[B]	HDE	CHC-C4B	-8.37	1.43	1.51
3	D	761[B]	HDE	CHC-C4B	-7.34	1.44	1.51
3	A	761[B]	HDE	CHC-C1C	-6.77	1.44	1.51
3	D	761[B]	HDE	CHD-C1D	-6.62	1.44	1.51
3	C	761[B]	HDE	CHC-C4B	-6.54	1.44	1.51

The worst 5 of 104 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	761[B]	HDE	CHC-C4B-C3B	-6.73	121.56	129.68
3	A	761[B]	HDE	CHD-C1D-C2D	-6.58	118.53	129.53
2	A	760[A]	HDD	O1D-CGD-CBD	-6.57	103.16	110.17
3	D	761[B]	HDE	CAD-CBD-CGD	-5.81	102.73	112.66
3	A	761[B]	HDE	CAD-CBD-CGD	-5.72	102.89	112.66

There are no chirality outliers.

5 of 6 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	B	761[B]	HDE	C2B-C3B-CAB-CBB
3	A	761[B]	HDE	C2C-C3C-CAC-CBC
3	B	761[B]	HDE	C2C-C3C-CAC-CBC
3	D	761[B]	HDE	C2B-C3B-CAB-CBB
3	A	761[B]	HDE	C2B-C3B-CAB-CBB

There are no ring outliers.

8 monomers are involved in 96 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	760[A]	HDD	11	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	761[B]	HDE	12	0
2	B	760[A]	HDD	17	0
3	B	761[B]	HDE	11	0
2	C	760[A]	HDD	15	0
3	C	761[B]	HDE	13	0
2	D	760[A]	HDD	10	0
3	D	761[B]	HDE	7	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	726/753 (96%)	-0.78	3 (0%) 92 90	3, 10, 27, 44	2 (0%)
1	B	726/753 (96%)	-0.63	10 (1%) 75 72	4, 12, 32, 45	2 (0%)
1	C	726/753 (96%)	-0.67	5 (0%) 87 86	4, 12, 31, 45	2 (0%)
1	D	726/753 (96%)	-0.78	5 (0%) 87 86	3, 10, 28, 45	1 (0%)
All	All	2904/3012 (96%)	-0.72	23 (0%) 86 84	3, 11, 30, 45	7 (0%)

The worst 5 of 23 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	726	GLY	4.3
1	D	28	SER	3.6
1	B	32	GLU	3.5
1	B	713	GLN	3.1
1	C	726	GLY	3.0

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 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
4	H2S	D	754	1/1	0.93	0.34	20.22	25,25,25,25	1
4	H2S	A	754	1/1	0.95	0.34	13.69	29,29,29,29	1
4	H2S	C	754	1/1	0.94	0.24	9.99	19,19,19,19	1
4	H2S	B	754	1/1	0.98	0.27	7.86	20,20,20,20	1
3	HDE	C	761[B]	44/44	0.99	0.07	0.65	3,11,13,13	44
2	HDD	B	760[A]	44/44	0.98	0.07	0.56	3,4,8,8	44
2	HDD	A	760[A]	44/44	0.98	0.07	0.55	2,3,8,10	44
3	HDE	B	761[B]	44/44	0.98	0.07	0.53	3,9,13,15	44
2	HDD	C	760[A]	44/44	0.99	0.07	0.45	3,4,9,15	44
3	HDE	A	761[B]	44/44	0.99	0.07	0.28	2,7,11,15	44
2	HDD	D	760[A]	44/44	0.99	0.06	0.15	2,3,7,14	44
3	HDE	D	761[B]	44/44	0.99	0.06	0.13	2,8,13,17	44

6.5 Other polymers ⓘ

There are no such residues in this entry.