



wwPDB X-ray Structure Validation Summary Report ⓘ

Feb 15, 2017 – 01:36 am GMT

PDB ID : 3PFD
Title : Crystal structure of an Acyl-CoA dehydrogenase from *Mycobacterium thermoresistibile* bound to reduced flavin adenine dinucleotide solved by combined iodide ion SAD MR
Authors : Seattle Structural Genomics Center for Infectious Disease (SSGCID)
Deposited on : 2010-10-28
Resolution : 2.10 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	:	trunk28620
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)	:	recalc28949

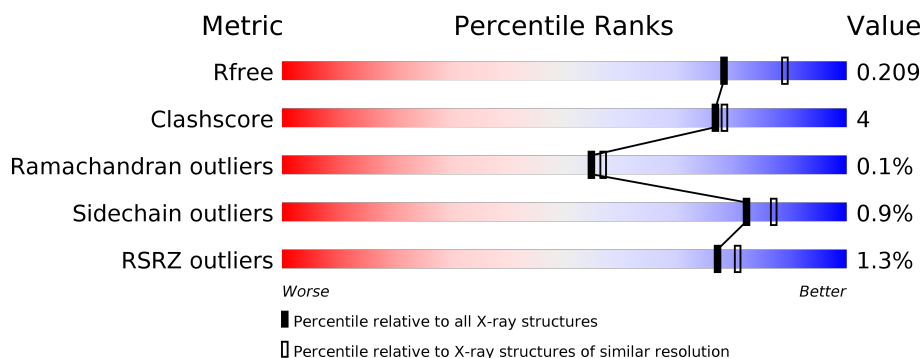
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.10 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	4243 (2.10-2.10)
Clashscore	112137	4788 (2.10-2.10)
Ramachandran outliers	110173	4740 (2.10-2.10)
Sidechain outliers	110143	4741 (2.10-2.10)
RSRZ outliers	101464	4275 (2.10-2.10)

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	393	<div> <div style="width: 100%; height: 10px; background: linear-gradient(to right, red 1%, orange 1%, yellow 7%, green 87%, grey 6%);"></div> <div style="display: flex; justify-content: space-between; font-size: 0.8em;"> % 87% 7% 6% </div> </div>
1	B	393	<div> <div style="width: 100%; height: 10px; background: linear-gradient(to right, red 1%, orange 1%, yellow 7%, green 86%, grey 6%);"></div> <div style="display: flex; justify-content: space-between; font-size: 0.8em;"> % 86% 7% 6% </div> </div>
1	C	393	<div> <div style="width: 100%; height: 10px; background: linear-gradient(to right, red 2%, orange 1%, yellow 7%, green 87%, grey 6%);"></div> <div style="display: flex; justify-content: space-between; font-size: 0.8em;"> 2% 87% 7% 6% </div> </div>
1	D	393	<div> <div style="width: 100%; height: 10px; background: linear-gradient(to right, red 1%, orange 1%, yellow 5%, green 89%, grey 6%);"></div> <div style="display: flex; justify-content: space-between; font-size: 0.8em;"> % 89% 5% 6% </div> </div>

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
3	IOD	A	392	-	-	X	-
3	IOD	A	406	-	-	X	-
3	IOD	A	421	-	-	X	-
3	IOD	B	403	-	-	X	-
3	IOD	B	418	-	-	X	-
3	IOD	D	404	-	-	X	-
3	IOD	D	417	-	-	X	-

2 Entry composition [i](#)

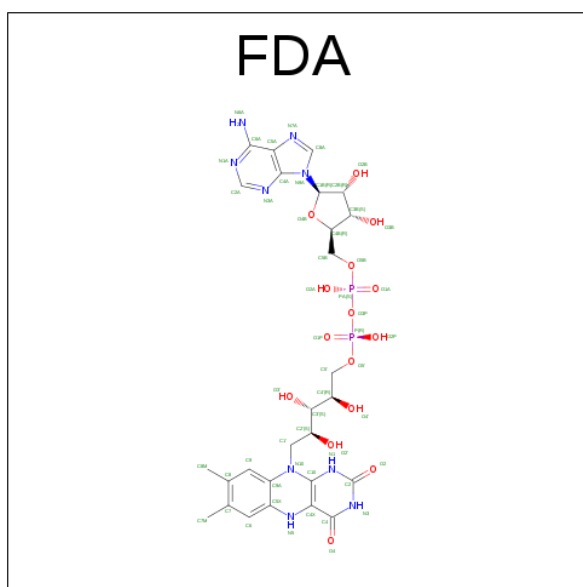
There are 4 unique types of molecules in this entry. The entry contains 11829 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 Acyl-CoA dehydrogenase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	368	Total	C	N	O	S	0	1	0
			2722	1700	471	533	18			
1	B	368	Total	C	N	O	S	0	1	0
			2720	1699	474	529	18			
1	C	369	Total	C	N	O	S	0	1	0
			2718	1701	473	526	18			
1	D	369	Total	C	N	O	S	0	0	0
			2725	1700	479	528	18			

- Molecule 2 is DIHYDROFLAVINE-ADENINE DINUCLEOTIDE (three-letter code: FDA) (formula: $C_{27}H_{35}N_9O_{15}P_2$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	C	N	O	P	0
			53	27	9	15	2	
2	B	1	Total	C	N	O	P	0
			53	27	9	15	2	

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
2	C	1	Total	C	N	O	P	0	0
			53	27	9	15	2		
2	D	1	Total	C	N	O	P	0	0
			53	27	9	15	2		

- Molecule 3 is IODIDE ION (three-letter code: IOD) (formula: I).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	B	28	Total	I	0	0
			28	28		
3	A	31	Total	I	0	0
			31	31		
3	D	28	Total	I	0	0
			28	28		
3	C	22	Total	I	0	0
			22	22		

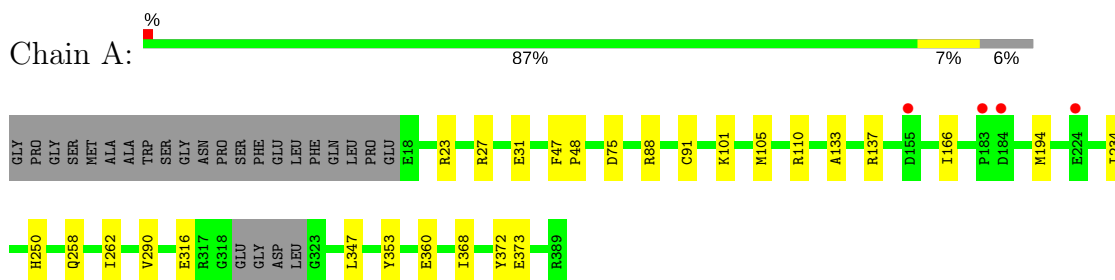
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	167	Total	O	0	0
			167	167		
4	B	156	Total	O	0	0
			156	156		
4	C	134	Total	O	0	0
			134	134		
4	D	166	Total	O	0	0
			166	166		

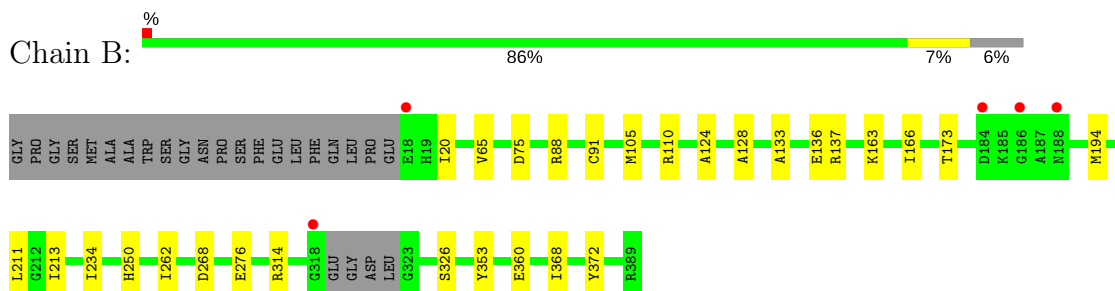
3 Residue-property plots [i](#)

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.

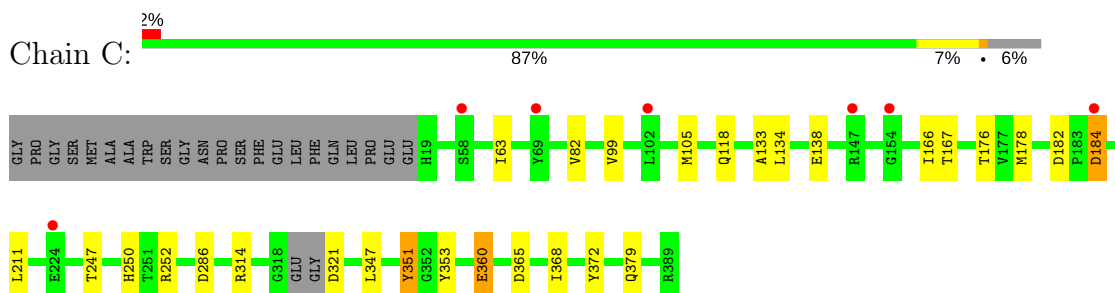
- Molecule 1: Acyl-CoA dehydrogenase



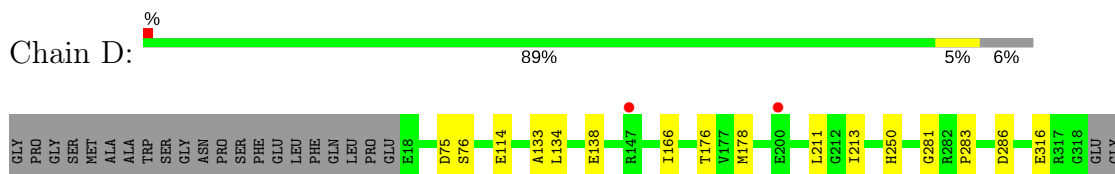
- Molecule 1: Acyl-CoA dehydrogenase

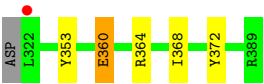


- Molecule 1: Acyl-CoA dehydrogenase



- Molecule 1: Acyl-CoA dehydrogenase





4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	74.43Å 114.55Å 92.77Å 90.00° 92.13° 90.00°	Depositor
Resolution (Å)	50.00 – 2.10 29.47 – 2.10	Depositor EDS
% Data completeness (in resolution range)	99.2 (50.00-2.10) 99.2 (29.47-2.10)	Depositor EDS
R_{merge}	0.13	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.52 (at 2.10Å)	Xtriage
Refinement program	REFMAC 5.5.0109	Depositor
R, R_{free}	0.169 , 0.207 0.172 , 0.209	Depositor DCC
R_{free} test set	4507 reflections (5.28%)	DCC
Wilson B-factor (Å ²)	19.1	Xtriage
Anisotropy	0.130	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.39 , 53.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	0.064 for h,-k,-l	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	11829	wwPDB-VP
Average B, all atoms (Å ²)	21.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.18% 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 [i](#)

5.1 Standard geometry [i](#)

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

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	0/2768	0.71	3/3744 (0.1%)
1	B	0.70	1/2766 (0.0%)	0.68	2/3741 (0.1%)
1	C	0.66	1/2765 (0.0%)	0.67	2/3741 (0.1%)
1	D	0.71	1/2767 (0.0%)	0.69	0/3740
All	All	0.70	3/11066 (0.0%)	0.69	7/14966 (0.0%)

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	360	GLU	CB-CG	-6.40	1.40	1.52
1	D	360	GLU	CB-CG	-5.68	1.41	1.52
1	C	360	GLU	CB-CG	-5.43	1.41	1.52

The worst 5 of 7 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	110	ARG	NE-CZ-NH2	-8.27	116.16	120.30
1	A	110	ARG	NE-CZ-NH1	7.46	124.03	120.30
1	C	321	ASP	CB-CG-OD1	5.85	123.56	118.30
1	B	110	ARG	NE-CZ-NH2	-5.79	117.41	120.30
1	B	110	ARG	NE-CZ-NH1	5.40	123.00	120.30

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	2722	0	2666	16	0
1	B	2720	0	2669	17	0
1	C	2718	0	2658	21	0
1	D	2725	0	2681	18	0
2	A	53	0	33	0	0
2	B	53	0	33	0	0
2	C	53	0	33	0	0
2	D	53	0	33	1	0
3	A	31	0	0	9	0
3	B	28	0	0	8	0
3	C	22	0	0	5	0
3	D	28	0	0	11	0
4	A	167	0	0	4	0
4	B	156	0	0	1	0
4	C	134	0	0	2	0
4	D	166	0	0	4	0
All	All	11829	0	10806	77	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 4.

The worst 5 of 77 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)
3:B:402:IOD:I	3:B:403:IOD:I	2.92	1.27
3:A:391:IOD:I	3:A:392:IOD:I	2.96	1.24
3:D:417:IOD:I	4:D:555:HOH:O	2.30	1.19
3:D:403:IOD:I	3:D:404:IOD:I	3.09	1.10
3:D:398:IOD:I	4:D:449:HOH:O	2.38	1.09

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	365/393 (93%)	361 (99%)	4 (1%)	0	100	100
1	B	365/393 (93%)	357 (98%)	7 (2%)	1 (0%)	44	44
1	C	366/393 (93%)	361 (99%)	5 (1%)	0	100	100
1	D	365/393 (93%)	362 (99%)	2 (0%)	1 (0%)	44	44
All	All	1461/1572 (93%)	1441 (99%)	18 (1%)	2 (0%)	55	57

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	D	213	ILE
1	B	213	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	272/299 (91%)	270 (99%)	2 (1%)	87	91
1	B	271/299 (91%)	267 (98%)	4 (2%)	70	76
1	C	268/299 (90%)	264 (98%)	4 (2%)	70	76
1	D	271/299 (91%)	269 (99%)	2 (1%)	87	91
All	All	1082/1196 (90%)	1070 (99%)	12 (1%)	82	83

5 of 12 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	372	TYR
1	C	184	ASP
1	C	372	TYR
1	B	326[B]	SER
1	C	351[B]	TYR

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

Mol	Chain	Res	Type
1	C	118	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 113 ligands modelled in this entry, 109 are monoatomic - leaving 4 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	FDA	A	390	-	51,58,58	1.07	2 (3%)	54,89,89	2.15	10 (18%)
2	FDA	B	390	-	51,58,58	0.97	2 (3%)	54,89,89	2.07	9 (16%)
2	FDA	C	390	-	51,58,58	0.96	3 (5%)	54,89,89	1.76	7 (12%)
2	FDA	D	390	-	51,58,58	0.90	3 (5%)	54,89,89	2.01	8 (14%)

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	FDA	A	390	-	-	0/28/50/50	0/6/6/6
2	FDA	B	390	-	-	0/28/50/50	0/6/6/6
2	FDA	C	390	-	-	0/28/50/50	0/6/6/6
2	FDA	D	390	-	-	0/28/50/50	0/6/6/6

The worst 5 of 10 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	390	FDA	C2A-N3A	2.10	1.35	1.32
2	C	390	FDA	C9A-N10	2.17	1.41	1.38
2	D	390	FDA	O4B-C1B	2.32	1.44	1.41
2	A	390	FDA	C10-N1	2.41	1.36	1.33
2	D	390	FDA	C10-N1	2.47	1.36	1.33

The worst 5 of 34 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	390	FDA	N3A-C2A-N1A	-9.37	120.70	128.86
2	D	390	FDA	N3A-C2A-N1A	-9.21	120.83	128.86
2	B	390	FDA	N3A-C2A-N1A	-8.72	121.26	128.86
2	C	390	FDA	N3A-C2A-N1A	-6.64	123.08	128.86
2	A	390	FDA	C4X-C10-N10	-3.96	117.77	120.52

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
2	D	390	FDA	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	368/393 (93%)	-0.31	4 (1%) 80 84	9, 18, 31, 43	0
1	B	368/393 (93%)	-0.18	5 (1%) 75 79	9, 19, 37, 48	0
1	C	369/393 (93%)	-0.09	7 (1%) 67 71	9, 22, 40, 48	0
1	D	369/393 (93%)	-0.30	3 (0%) 86 88	9, 19, 33, 43	0
All	All	1474/1572 (93%)	-0.22	19 (1%) 77 81	9, 19, 37, 48	0

The worst 5 of 19 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	184	ASP	3.9
1	A	184	ASP	3.0
1	C	184	ASP	3.0
1	B	18	GLU	2.5
1	C	102	LEU	2.5

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	IOD	D	397	1/1	0.98	0.09	0.71	28,28,28,28	1
3	IOD	A	419	1/1	0.98	0.08	0.30	23,23,23,23	1
2	FDA	C	390	53/53	0.96	0.10	-0.15	13,16,20,22	0
2	FDA	A	390	53/53	0.98	0.10	-0.24	10,14,16,19	0
2	FDA	D	390	53/53	0.97	0.10	-0.32	10,14,17,19	0
3	IOD	C	393	1/1	0.96	0.07	-0.32	28,28,28,28	1
2	FDA	B	390	53/53	0.98	0.09	-0.51	8,13,16,17	0
3	IOD	A	413	1/1	0.96	0.09	-0.89	32,32,32,32	1
3	IOD	A	398	1/1	0.96	0.07	-1.10	38,38,38,38	1
3	IOD	B	397	1/1	0.97	0.07	-1.31	31,31,31,31	1
3	IOD	B	393	1/1	0.97	0.07	-1.52	22,22,22,22	1
3	IOD	D	417	1/1	0.98	0.06	-1.63	38,38,38,38	1
3	IOD	D	405	1/1	1.00	0.03	-1.80	32,32,32,32	1
3	IOD	C	404	1/1	0.99	0.03	-1.90	34,34,34,34	1
3	IOD	C	407	1/1	0.99	0.04	-1.92	26,26,26,26	1
3	IOD	C	403	1/1	0.98	0.07	-1.92	33,33,33,33	1
3	IOD	D	409	1/1	1.00	0.03	-2.17	27,27,27,27	1
3	IOD	A	397	1/1	0.99	0.03	-2.33	32,32,32,32	1
3	IOD	B	411	1/1	0.99	0.03	-2.35	30,30,30,30	1
3	IOD	D	416	1/1	0.98	0.03	-2.48	32,32,32,32	0
3	IOD	B	399	1/1	0.99	0.03	-2.48	34,34,34,34	1
3	IOD	B	414	1/1	0.99	0.03	-2.49	41,41,41,41	0
3	IOD	A	410	1/1	0.99	0.02	-2.62	36,36,36,36	0
3	IOD	C	406	1/1	0.99	0.03	-2.69	35,35,35,35	1
3	IOD	A	401	1/1	1.00	0.03	-2.83	26,26,26,26	1
3	IOD	D	408	1/1	0.99	0.03	-3.02	30,30,30,30	1
3	IOD	B	410	1/1	1.00	0.02	-3.06	26,26,26,26	1
3	IOD	C	410	1/1	0.98	0.04	-3.13	35,35,35,35	0
3	IOD	A	400	1/1	1.00	0.03	-4.91	30,30,30,30	1
3	IOD	B	407	1/1	0.97	0.06	-5.30	39,39,39,39	1
3	IOD	D	402	1/1	0.93	0.07	-	32,32,32,32	1
3	IOD	A	407	1/1	0.96	0.10	-	40,40,40,40	1
3	IOD	C	391	1/1	0.99	0.05	-	31,31,31,31	1
3	IOD	D	407	1/1	0.98	0.05	-	29,29,29,29	1
3	IOD	A	391	1/1	0.98	0.04	-	37,37,37,37	1
3	IOD	A	395	1/1	0.99	0.03	-	36,36,36,36	1
3	IOD	A	421	1/1	0.99	0.04	-	30,30,30,30	1
3	IOD	A	394	1/1	0.98	0.04	-	40,40,40,40	1
3	IOD	D	412	1/1	0.99	0.03	-	26,26,26,26	1
3	IOD	A	403	1/1	0.96	0.06	-	33,33,33,33	1
3	IOD	B	416	1/1	0.99	0.05	-	32,32,32,32	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
3	IOD	D	403	1/1	0.98	0.06	-	39,39,39,39	1
3	IOD	C	398	1/1	0.98	0.04	-	51,51,51,51	1
3	IOD	D	413	1/1	0.98	0.06	-	46,46,46,46	1
3	IOD	C	392	1/1	1.00	0.03	-	24,24,24,24	1
3	IOD	B	395	1/1	0.99	0.08	-	26,26,26,26	1
3	IOD	D	415	1/1	0.95	0.08	-	34,34,34,34	1
3	IOD	C	396	1/1	0.98	0.04	-	32,32,32,32	1
3	IOD	A	392	1/1	0.97	0.06	-	34,34,34,34	1
3	IOD	A	418	1/1	0.99	0.04	-	29,29,29,29	1
3	IOD	B	392	1/1	1.00	0.03	-	22,22,22,22	1
3	IOD	D	399	1/1	0.97	0.04	-	51,51,51,51	1
3	IOD	A	396	1/1	0.96	0.05	-	34,34,34,34	1
3	IOD	C	405	1/1	0.97	0.04	-	34,34,34,34	1
3	IOD	C	400	1/1	0.94	0.06	-	49,49,49,49	1
3	IOD	C	412	1/1	0.99	0.04	-	34,34,34,34	1
3	IOD	D	410	1/1	0.99	0.05	-	28,28,28,28	1
3	IOD	D	404	1/1	0.99	0.07	-	30,30,30,30	1
3	IOD	A	420	1/1	1.00	0.02	-	23,23,23,23	1
3	IOD	D	414	1/1	0.99	0.05	-	34,34,34,34	1
3	IOD	D	392	1/1	0.99	0.06	-	28,28,28,28	1
3	IOD	A	409	1/1	0.99	0.03	-	36,36,36,36	1
3	IOD	A	408	1/1	0.96	0.09	-	36,36,36,36	1
3	IOD	B	398	1/1	0.98	0.07	-	29,29,29,29	1
3	IOD	A	414	1/1	0.99	0.02	-	32,32,32,32	1
3	IOD	B	406	1/1	0.93	0.09	-	53,53,53,53	1
3	IOD	D	391	1/1	0.99	0.03	-	28,28,28,28	1
3	IOD	C	402	1/1	0.99	0.04	-	30,30,30,30	1
3	IOD	A	415	1/1	0.98	0.03	-	29,29,29,29	1
3	IOD	C	397	1/1	0.99	0.05	-	30,30,30,30	1
3	IOD	B	412	1/1	0.99	0.03	-	31,31,31,31	1
3	IOD	B	400	1/1	0.96	0.04	-	43,43,43,43	1
3	IOD	A	399	1/1	0.98	0.05	-	30,30,30,30	1
3	IOD	D	394	1/1	0.97	0.06	-	37,37,37,37	1
3	IOD	B	415	1/1	0.96	0.04	-	51,51,51,51	1
3	IOD	D	401	1/1	0.99	0.04	-	30,30,30,30	1
3	IOD	B	409	1/1	0.97	0.05	-	39,39,39,39	1
3	IOD	B	405	1/1	0.99	0.05	-	42,42,42,42	1
3	IOD	C	399	1/1	0.99	0.03	-	42,42,42,42	1
3	IOD	A	406	1/1	0.99	0.03	-	25,25,25,25	1
3	IOD	C	409	1/1	0.99	0.03	-	29,29,29,29	1
3	IOD	B	402	1/1	0.99	0.04	-	36,36,36,36	1
3	IOD	A	416	1/1	0.99	0.05	-	27,27,27,27	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
3	IOD	D	398	1/1	0.99	0.04	-	30,30,30,30	1
3	IOD	B	403	1/1	0.98	0.06	-	32,32,32,32	1
3	IOD	A	412	1/1	0.98	0.05	-	43,43,43,43	1
3	IOD	B	418	1/1	0.96	0.05	-	44,44,44,44	1
3	IOD	C	411	1/1	0.99	0.04	-	31,31,31,31	1
3	IOD	A	402	1/1	0.97	0.05	-	32,32,32,32	1
3	IOD	B	408	1/1	0.98	0.06	-	46,46,46,46	1
3	IOD	B	391	1/1	0.99	0.04	-	30,30,30,30	1
3	IOD	C	394	1/1	0.99	0.03	-	29,29,29,29	1
3	IOD	B	404	1/1	0.98	0.03	-	44,44,44,44	1
3	IOD	A	404	1/1	0.99	0.03	-	29,29,29,29	1
3	IOD	D	418	1/1	0.87	0.07	-	57,57,57,57	1
3	IOD	D	411	1/1	0.93	0.08	-	39,39,39,39	1
3	IOD	C	408	1/1	0.99	0.04	-	39,39,39,39	1
3	IOD	D	400	1/1	0.99	0.03	-	36,36,36,36	1
3	IOD	C	401	1/1	0.98	0.07	-	38,38,38,38	1
3	IOD	B	413	1/1	0.98	0.05	-	26,26,26,26	1
3	IOD	D	395	1/1	0.99	0.07	-	35,35,35,35	1
3	IOD	A	411	1/1	0.93	0.10	-	61,61,61,61	1
3	IOD	B	396	1/1	0.99	0.02	-	30,30,30,30	1
3	IOD	D	396	1/1	1.00	0.03	-	22,22,22,22	1
3	IOD	D	393	1/1	0.98	0.04	-	29,29,29,29	1
3	IOD	C	395	1/1	0.97	0.06	-	28,28,28,28	1
3	IOD	B	417	1/1	0.99	0.04	-	28,28,28,28	1
3	IOD	A	417	1/1	1.00	0.02	-	23,23,23,23	0
3	IOD	B	394	1/1	1.00	0.03	-	23,23,23,23	0
3	IOD	A	405	1/1	0.98	0.10	-	49,49,49,49	1
3	IOD	D	406	1/1	0.99	0.03	-	39,39,39,39	1
3	IOD	B	401	1/1	0.99	0.04	-	35,35,35,35	1
3	IOD	A	393	1/1	0.97	0.05	-	39,39,39,39	1

6.5 Other polymers

There are no such residues in this entry.