



wwPDB X-ray Structure Validation Summary Report ⓘ

Feb 1, 2016 – 02:43 AM GMT

PDB ID : 2IBY
Title : Crystallographic and kinetic studies of human mitochondrial acetoacetyl-CoA thiolase (T2): the importance of potassium and chloride for its structure and function
Authors : Haapalainen, A.M.; Wierenga, R.K.
Deposited on : 2006-09-12
Resolution : 1.85 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 (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

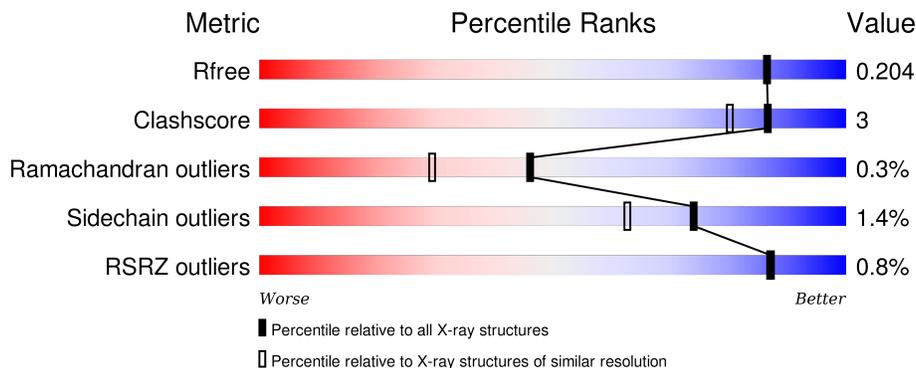
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

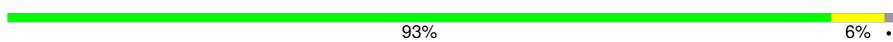
The reported resolution of this entry is 1.85 Å.

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	1745 (1.86-1.86)
Clashscore	102246	1898 (1.86-1.86)
Ramachandran outliers	100387	1875 (1.86-1.86)
Sidechain outliers	100360	1875 (1.86-1.86)
RSRZ outliers	91569	1747 (1.86-1.86)

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	395	 93% 6% .
1	B	395	 93% 6% .
1	C	395	 93% 6% ..
1	D	395	 91% 8% ..

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 criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
2	CL	B	2001	-	-	-	X
4	COA	A	6001	-	-	-	X
4	COA	B	6002	-	-	-	X
6	GOL	A	4001	-	-	-	X

2 Entry composition [i](#)

There are 7 unique types of molecules in this entry. The entry contains 13011 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 Acetyl-CoA acetyltransferase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	391	2913	1842	491	559	21	0	11	0
1	B	391	2921	1851	492	557	21	0	14	0
1	C	393	2900	1830	494	555	21	0	3	0
1	D	393	2891	1823	493	554	21	0	1	0

There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	33	MET	-	INITIATING METHIONINE	UNP P24752
A	34	ALA	VAL	ENGINEERED	UNP P24752
A	126	CSO	CYS	MODIFIED RESIDUE	UNP P24752
B	33	MET	-	INITIATING METHIONINE	UNP P24752
B	34	ALA	VAL	ENGINEERED	UNP P24752
B	126	CSO	CYS	MODIFIED RESIDUE	UNP P24752
C	33	MET	-	INITIATING METHIONINE	UNP P24752
C	34	ALA	VAL	ENGINEERED	UNP P24752
C	126	CSO	CYS	MODIFIED RESIDUE	UNP P24752
D	33	MET	-	INITIATING METHIONINE	UNP P24752
D	34	ALA	VAL	ENGINEERED	UNP P24752
D	126	CSO	CYS	MODIFIED RESIDUE	UNP P24752

- Molecule 2 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	B	1	Total	Cl	0	0
			1	1		
2	A	1	Total	Cl	0	0
			1	1		

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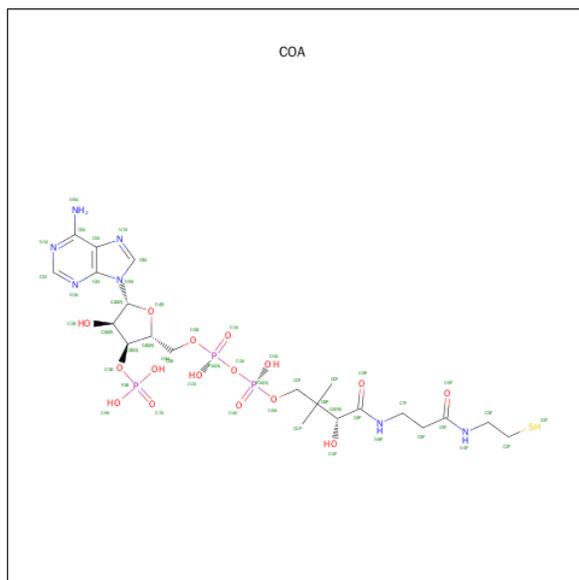
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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	D	1	Total Cl 1 1	0	0
2	C	1	Total Cl 1 1	0	0

- Molecule 3 is POTASSIUM ION (three-letter code: K) (formula: K).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	B	1	Total K 1 1	0	0
3	A	1	Total K 1 1	0	0
3	D	1	Total K 1 1	0	0
3	C	1	Total K 1 1	0	0

- Molecule 4 is COENZYME A (three-letter code: COA) (formula: C₂₁H₃₆N₇O₁₆P₃S).



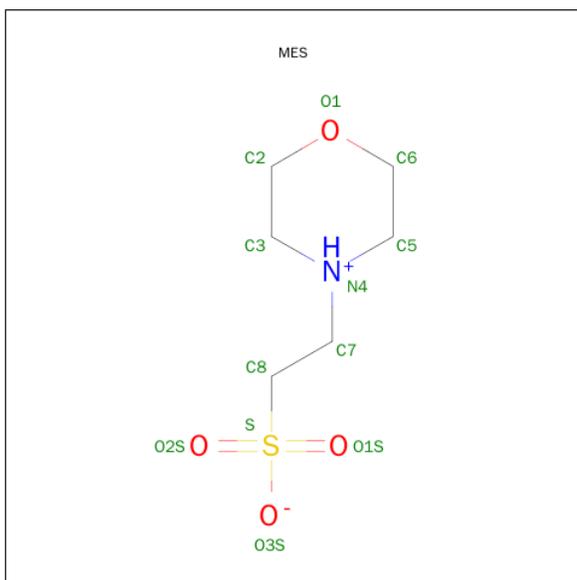
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	1	Total C N O P S 48 21 7 16 3 1	0	0
4	B	1	Total C N O P S 48 21 7 16 3 1	0	0
4	C	1	Total C N O P S 48 21 7 16 3 1	0	0

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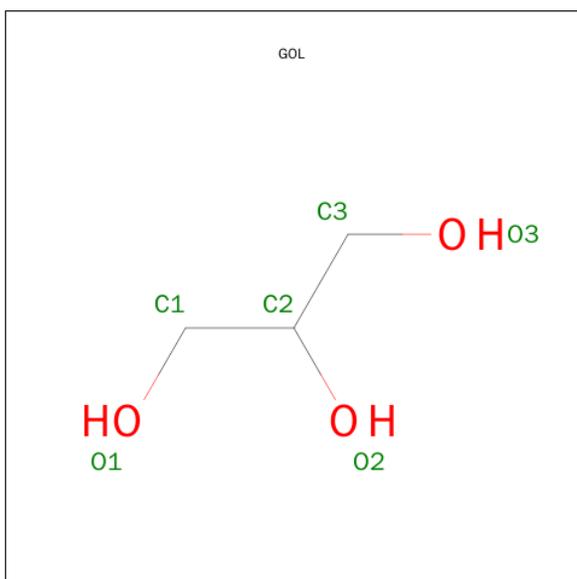
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	
			Total	C	N	O	P			S
4	D	1	48	21	7	16	3	1	0	0

- Molecule 5 is 2-(N-MORPHOLINO)-ETHANESULFONIC ACID (three-letter code: MES) (formula: C₆H₁₃NO₄S).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	N	O	S		
5	A	1	12	6	1	4	1	0	0

- Molecule 6 is GLYCEROL (three-letter code: GOL) (formula: C₃H₈O₃).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
6	A	1	Total	C	O	0	0
			6	3	3		
6	B	1	Total	C	O	0	0
			6	3	3		

- Molecule 7 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	A	410	Total	O	0	0
			410	410		
7	B	376	Total	O	0	0
			376	376		
7	C	176	Total	O	0	0
			176	176		
7	D	200	Total	O	0	0
			200	200		

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.

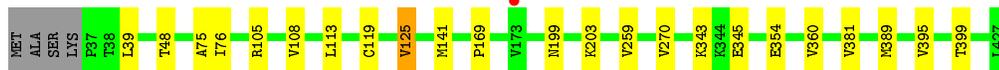
- Molecule 1: Acetyl-CoA acetyltransferase

Chain A:  93% 6%



- Molecule 1: Acetyl-CoA acetyltransferase

Chain B:  93% 6%



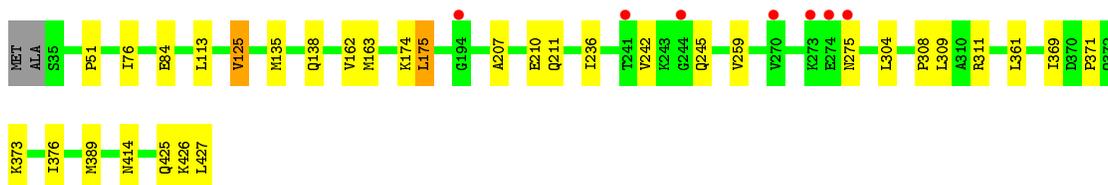
- Molecule 1: Acetyl-CoA acetyltransferase

Chain C:  93% 6%



- Molecule 1: Acetyl-CoA acetyltransferase

Chain D:  91% 8%



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	75.35Å 106.75Å 101.66Å 90.00° 103.06° 90.00°	Depositor
Resolution (Å)	73.32 – 1.85 73.40 – 1.85	Depositor EDS
% Data completeness (in resolution range)	100.0 (73.32-1.85) 99.9 (73.40-1.85)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	0.07	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.96 (at 1.86Å)	Xtrriage
Refinement program	REFMAC 5.2.0019	Depositor
R, R_{free}	0.164 , 0.203 0.165 , 0.204	Depositor DCC
R_{free} test set	6668 reflections (5.26%)	DCC
Wilson B-factor (Å ²)	19.2	Xtrriage
Anisotropy	0.059	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.37 , 66.1	EDS
Estimated twinning fraction	No twinning to report.	Xtrriage
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtrriage
Outliers	0 of 133366 reflections	Xtrriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	13011	wwPDB-VP
Average B, all atoms (Å ²)	25.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.08% 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 [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: GOL, CSO, CL, K, COA, MES

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	0.59	0/2991	0.65	0/4048
1	B	0.57	0/3014	0.64	0/4082
1	C	0.41	0/2946	0.56	0/3984
1	D	0.43	0/2929	0.56	0/3962
All	All	0.51	0/11880	0.60	0/16076

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	2913	0	3005	15	0
1	B	2921	0	3027	16	0
1	C	2900	0	2994	14	0
1	D	2891	0	2980	19	0
2	A	1	0	0	0	0
2	B	1	0	0	0	0
2	C	1	0	0	0	0
2	D	1	0	0	0	0
3	A	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	B	1	0	0	0	0
3	C	1	0	0	0	0
3	D	1	0	0	0	0
4	A	48	0	32	3	0
4	B	48	0	32	2	0
4	C	48	0	32	1	0
4	D	48	0	32	1	0
5	A	12	0	12	2	0
6	A	6	0	8	0	0
6	B	6	0	8	0	0
7	A	410	0	0	4	0
7	B	376	0	0	3	0
7	C	176	0	0	0	0
7	D	200	0	0	0	0
All	All	13011	0	12162	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 3.

The worst 5 of 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:B:108[A]:VAL:HG21	1:B:119:CYS:SG	1.99	1.01
1:B:48[A]:THR:HG22	7:B:6191:HOH:O	1.81	0.81
1:B:343[A]:LYS:HD2	1:B:345:GLU:OE1	1.84	0.76
1:A:48[A]:THR:HG22	7:A:6155:HOH:O	1.89	0.71
1:B:395:VAL:O	1:B:399[B]:THR:HG23	1.96	0.66

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	399/395 (101%)	395 (99%)	3 (1%)	1 (0%)	46	29
1	B	402/395 (102%)	396 (98%)	5 (1%)	1 (0%)	52	36
1	C	393/395 (100%)	382 (97%)	10 (2%)	1 (0%)	46	29
1	D	391/395 (99%)	383 (98%)	7 (2%)	1 (0%)	46	29
All	All	1585/1580 (100%)	1556 (98%)	25 (2%)	4 (0%)	46	29

All (4) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	125	VAL
1	B	125	VAL
1	C	125	VAL
1	D	125	VAL

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	316/308 (103%)	314 (99%)	2 (1%)	90	87
1	B	319/308 (104%)	317 (99%)	2 (1%)	90	87
1	C	310/308 (101%)	303 (98%)	7 (2%)	58	41
1	D	308/308 (100%)	301 (98%)	7 (2%)	58	41
All	All	1253/1232 (102%)	1235 (99%)	18 (1%)	74	63

5 of 18 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	C	305	ASN
1	C	426	LYS
1	D	175	LEU
1	C	270	VAL
1	C	274	GLU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 7 such

sidechains are listed below:

Mol	Chain	Res	Type
1	B	199	ASN
1	D	138	GLN
1	C	93	ASN
1	B	93	ASN
1	D	93	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

4 non-standard protein/DNA/RNA residues 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	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
1	CSO	A	126	1	3,6,7	0.55	0	1,6,8	2.47	1 (100%)
1	CSO	B	126	1	3,6,7	0.53	0	1,6,8	2.31	1 (100%)
1	CSO	C	126	1	3,6,7	0.58	0	1,6,8	2.15	1 (100%)
1	CSO	D	126	1	3,6,7	0.54	0	1,6,8	2.00	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
1	CSO	A	126	1	-	0/1/5/7	0/0/0/0
1	CSO	B	126	1	-	0/1/5/7	0/0/0/0
1	CSO	C	126	1	-	0/1/5/7	0/0/0/0
1	CSO	D	126	1	-	0/1/5/7	0/0/0/0

There are no bond length outliers.

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	126	CSO	O-C-CA	-2.47	119.05	125.49
1	B	126	CSO	O-C-CA	-2.31	119.46	125.49
1	C	126	CSO	O-C-CA	-2.15	119.90	125.49

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

Of 15 ligands modelled in this entry, 8 are monoatomic - leaving 7 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
6	GOL	A	4001	-	5,5,5	0.36	0	5,5,5	0.23	0
5	MES	A	5001	-	11,12,12	0.66	0	14,16,16	2.53	6 (42%)
4	COA	A	6001	-	40,50,50	1.61	5 (12%)	50,75,75	1.27	3 (6%)
6	GOL	B	4002	-	5,5,5	0.36	0	5,5,5	0.28	0
4	COA	B	6002	-	40,50,50	1.57	5 (12%)	50,75,75	1.39	3 (6%)
4	COA	C	6003	-	40,50,50	1.64	6 (15%)	50,75,75	1.33	3 (6%)
4	COA	D	6004	-	40,50,50	1.64	6 (15%)	50,75,75	1.32	2 (4%)

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
6	GOL	A	4001	-	-	0/4/4/4	0/0/0/0
5	MES	A	5001	-	-	0/6/14/14	0/1/1/1
4	COA	A	6001	-	-	0/44/64/64	0/3/3/3
6	GOL	B	4002	-	-	0/4/4/4	0/0/0/0
4	COA	B	6002	-	-	0/44/64/64	0/3/3/3
4	COA	C	6003	-	-	0/44/64/64	0/3/3/3
4	COA	D	6004	-	-	0/44/64/64	0/3/3/3

The worst 5 of 22 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	C	6003	COA	O4B-C1B	2.10	1.43	1.41
4	D	6004	COA	O4B-C1B	2.12	1.43	1.41
4	B	6002	COA	C5A-C4A	2.58	1.46	1.40
4	D	6004	COA	C5A-C4A	2.63	1.46	1.40
4	A	6001	COA	C5A-C4A	2.67	1.46	1.40

The worst 5 of 17 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	B	6002	COA	N3A-C2A-N1A	-7.30	123.31	128.89
4	C	6003	COA	N3A-C2A-N1A	-6.62	123.83	128.89
4	D	6004	COA	N3A-C2A-N1A	-6.49	123.93	128.89
4	A	6001	COA	N3A-C2A-N1A	-6.08	124.24	128.89
4	D	6004	COA	P2A-O3A-P1A	-4.40	120.37	132.73

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

5 monomers are involved in 8 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	A	5001	MES	2	0
4	A	6001	COA	3	0
4	B	6002	COA	2	0
4	C	6003	COA	1	0
4	D	6004	COA	1	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 [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	390/395 (98%)	-0.55	1 (0%) 94 93	7, 14, 28, 56	14 (3%)
1	B	390/395 (98%)	-0.52	1 (0%) 94 93	8, 15, 30, 53	20 (5%)
1	C	392/395 (99%)	-0.10	4 (1%) 84 84	17, 31, 47, 70	20 (5%)
1	D	392/395 (99%)	-0.07	7 (1%) 71 71	17, 29, 44, 65	31 (7%)
All	All	1564/1580 (98%)	-0.31	13 (0%) 87 87	7, 23, 43, 70	85 (5%)

The worst 5 of 13 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	244	GLY	6.3
1	C	243	LYS	3.3
1	D	270	VAL	3.1
1	D	274	GLU	2.9
1	D	275	ASN	2.8

6.2 Non-standard residues in protein, DNA, RNA chains [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
1	CSO	A	126	7/8	0.98	0.08	-	8,10,17,21	0
1	CSO	C	126	7/8	0.96	0.06	-	19,20,24,28	0
1	CSO	B	126	7/8	0.95	0.09	-	10,11,20,23	0
1	CSO	D	126	7/8	0.94	0.08	-	20,21,26,32	0

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
2	CL	B	2001	1/1	0.97	0.10	4.97	43,43,43,43	0
4	COA	B	6002	48/48	0.91	0.13	3.54	27,33,43,44	0
6	GOL	A	4001	6/6	0.91	0.14	2.79	30,33,34,35	0
4	COA	A	6001	48/48	0.92	0.13	2.32	20,35,45,46	1
4	COA	D	6004	48/48	0.86	0.19	1.64	40,59,62,63	1
4	COA	C	6003	48/48	0.88	0.14	1.22	29,50,55,56	1
3	K	A	3001	1/1	0.99	0.08	1.21	12,12,12,12	0
2	CL	A	2002	1/1	0.98	0.09	1.13	43,43,43,43	0
2	CL	C	2004	1/1	0.94	0.09	0.69	54,54,54,54	0
3	K	B	3002	1/1	1.00	0.07	-0.05	15,15,15,15	0
2	CL	D	2003	1/1	0.95	0.07	-0.41	55,55,55,55	0
3	K	C	3003	1/1	0.97	0.05	-2.18	28,28,28,28	0
3	K	D	3004	1/1	0.99	0.06	-2.36	26,26,26,26	0
6	GOL	B	4002	6/6	0.84	0.15	-	40,41,41,41	6
5	MES	A	5001	12/12	0.64	0.29	-	75,76,76,76	4

6.5 Other polymers [i](#)

There are no such residues in this entry.