



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 13, 2017 – 01:47 am GMT

PDB ID : 1CM0
Title : CRYSTAL STRUCTURE OF THE PCAF/COENZYME-A COMPLEX
Authors : Clements, A.; Rojas, J.R.; Trievel, R.C.; Wang, L.; Berger, S.L.; Marmorstein, R.
Deposited on : 1999-05-12
Resolution : 2.30 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 : 1.7.2 (RC1), CSD as538be (2017)
Xtriage (Phenix) : **NOT EXECUTED**
EDS : **NOT EXECUTED**
Percentile statistics : 20161228.v01 (using entries in the PDB archive December 28th 2016)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : recalc28949

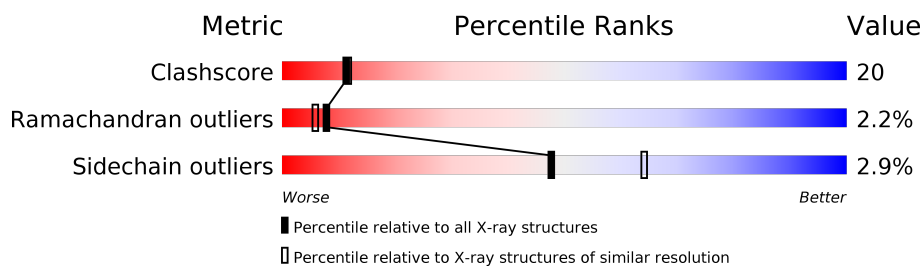
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.30 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	112137	4751 (2.30-2.30)
Ramachandran outliers	110173	4705 (2.30-2.30)
Sidechain outliers	110143	4704 (2.30-2.30)

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.

Note EDS was not executed.

Mol	Chain	Length	Quality of chain
1	A	168	
1	B	168	

2 Entry composition [i](#)

There are 3 unique types of molecules in this entry. The entry contains 2811 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.

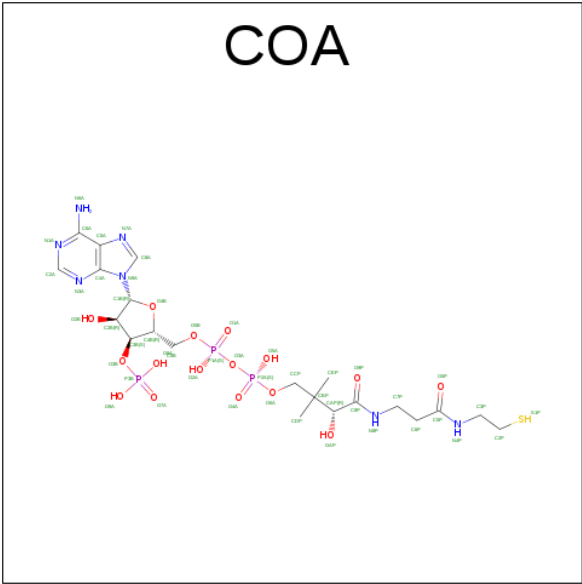
- Molecule 1 is a protein called P300/CBP ASSOCIATING FACTOR.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	B	162	Total	C	N	O	S	0	0	1
			1284	837	219	220	8			
1	A	163	Total	C	N	O	S	0	0	1
			1322	863	225	226	8			

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	491	MET	ARG	CONFLICT	UNP Q92831
B	492	LYS	GLY	CONFLICT	UNP Q92831
A	491	MET	ARG	CONFLICT	UNP Q92831
A	492	LYS	GLY	CONFLICT	UNP Q92831

- Molecule 2 is COENZYME A (three-letter code: COA) (formula: C₂₁H₃₆N₇O₁₆P₃S).



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

- Molecule 3 is water.

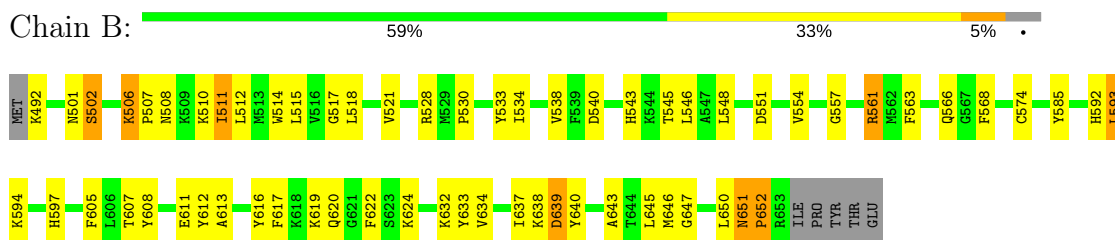
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	68	Total 68	O 68	0	0
3	B	41	Total 41	O 41	0	0

3 Residue-property plots [i](#)

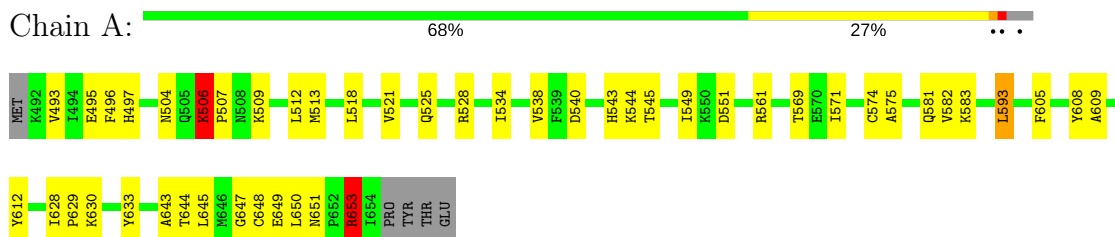
These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are 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.

Note EDS was not executed.

• Molecule 1: P300/CBP ASSOCIATING FACTOR



• Molecule 1: P300/CBP ASSOCIATING FACTOR



4 Data and refinement statistics

Xtriage (Phenix) and EDS were not executed - this section is therefore incomplete.

Property	Value	Source
Space group	P 64	Depositor
Cell constants a, b, c, α , β , γ	97.00 Å 97.00 Å 77.85 Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	20.00 – 2.30	Depositor
% Data completeness (in resolution range)	96.5 (20.00-2.30)	Depositor
R_{merge}	(Not available)	Depositor
R_{sym}	4.00	Depositor
Refinement program	CNS	Depositor
R, R_{free}	0.223 , 0.268	Depositor
Estimated twinning fraction	No twinning to report.	Xtriage
Total number of atoms	2811	wwPDB-VP
Average B, all atoms (Å ²)	36.0	wwPDB-VP

5 Model quality

5.1 Standard geometry

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

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	0.42	0/1356	1.33	2/1825 (0.1%)
1	B	0.38	0/1317	0.56	0/1775
All	All	0.40	0/2673	1.03	2/3600 (0.1%)

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

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed($^{\circ}$)	Ideal($^{\circ}$)
1	A	653	ARG	O-C-N	-46.47	48.34	122.70
1	A	653	ARG	CA-C-N	19.49	160.07	117.20

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	653	ARG	Mainchain

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	1322	0	1348	43	1
1	B	1284	0	1284	64	0
2	A	48	0	32	5	0
2	B	48	0	32	6	0
3	A	68	0	0	4	0
3	B	41	0	0	1	0
All	All	2811	0	2696	107	1

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 20.

All (107) 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:574:CYS:HB2	2:B:700:COA:S1P	1.59	1.40
1:B:574:CYS:CB	2:B:700:COA:S1P	2.33	1.16
1:B:651:ASN:HB3	1:B:652:PRO:HD2	1.44	0.98
1:B:508:ASN:HD22	1:B:511:ILE:HG23	1.38	0.86
1:B:624:LYS:HD3	1:B:624:LYS:H	1.42	0.84
1:B:624:LYS:H	1:B:624:LYS:CD	1.93	0.81
1:A:528:ARG:NH2	1:A:612:TYR:HE2	1.79	0.80
1:A:506:LYS:H	1:A:507:PRO:HD3	1.46	0.78
1:B:651:ASN:HB3	1:B:652:PRO:CD	2.20	0.71
1:A:506:LYS:N	1:A:507:PRO:HD3	2.06	0.69
1:A:644:THR:HG23	3:A:102:HOH:O	1.94	0.68
1:A:528:ARG:NH2	1:A:612:TYR:CE2	2.61	0.67
1:A:574:CYS:HB2	2:A:701:COA:S1P	2.34	0.67
1:A:521:VAL:O	1:A:525:GLN:HG2	1.96	0.66
1:B:624:LYS:HD3	1:B:624:LYS:N	2.10	0.66
1:B:651:ASN:CB	1:B:652:PRO:HD2	2.22	0.65
1:A:509:LYS:O	1:A:513:MET:HG2	1.97	0.65
1:A:581:GLN:O	1:A:583:LYS:HG3	1.97	0.64
1:A:506:LYS:H	1:A:506:LYS:HD3	1.61	0.64
1:B:561:ARG:HD2	1:B:563:PHE:CE2	2.32	0.64
1:A:574:CYS:HB2	2:A:701:COA:H22	1.79	0.64
1:B:540:ASP:OD2	1:B:543:HIS:HD2	1.82	0.62
1:B:616:TYR:O	1:B:620:GLN:HG2	2.00	0.61
1:A:506:LYS:N	1:A:507:PRO:CD	2.64	0.60
1:A:495:GLU:HG3	1:A:549:ILE:HB	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:518:LEU:HD13	1:A:545:THR:HG21	1.85	0.59
1:B:517:GLY:HA3	1:B:554:VAL:HG11	1.85	0.59
1:B:528:ARG:HH21	1:B:612:TYR:HE1	1.51	0.58
1:A:495:GLU:CG	1:A:549:ILE:HB	2.35	0.57
1:B:637:ILE:HG23	1:B:637:ILE:O	2.04	0.57
1:B:574:CYS:HB2	2:B:700:COA:C2P	2.34	0.57
1:B:574:CYS:HB3	2:B:700:COA:S1P	2.40	0.57
1:B:608:TYR:CE1	1:B:645:LEU:HB2	2.40	0.56
1:A:574:CYS:HB2	2:A:701:COA:C2P	2.34	0.56
1:B:620:GLN:NE2	1:B:620:GLN:HA	2.21	0.56
1:B:554:VAL:HG12	3:B:35:HOH:O	2.04	0.56
1:B:574:CYS:CB	2:B:700:COA:HS1	2.14	0.56
1:A:608:TYR:CE1	1:A:645:LEU:HD13	2.42	0.55
1:B:608:TYR:HB3	1:B:643:ALA:CB	2.36	0.55
1:B:510:LYS:HE2	1:B:514:TRP:CH2	2.43	0.54
1:B:506:LYS:N	1:B:507:PRO:CD	2.71	0.54
1:A:495:GLU:OE1	1:A:497:HIS:NE2	2.36	0.54
1:B:608:TYR:CE2	1:B:639:ASP:HA	2.43	0.54
1:B:561:ARG:HD2	1:B:563:PHE:CZ	2.42	0.53
1:B:608:TYR:HB3	1:B:643:ALA:HB1	1.89	0.53
1:B:624:LYS:CE	1:B:624:LYS:H	2.21	0.53
1:B:517:GLY:O	1:B:521:VAL:HG23	2.09	0.52
1:A:534:ILE:O	1:A:538:VAL:HG23	2.10	0.51
1:B:534:ILE:O	1:B:538:VAL:HG23	2.10	0.51
1:B:518:LEU:HD13	1:B:545:THR:HG21	1.92	0.51
1:B:492:LYS:HB3	1:B:551:ASP:OD1	2.11	0.50
1:B:617:PHE:HB3	1:B:622:PHE:HB2	1.94	0.50
1:B:633:TYR:O	1:B:637:ILE:HG22	2.11	0.50
1:A:497:HIS:ND1	3:A:101:HOH:O	2.35	0.50
1:B:613:ALA:HB2	2:B:700:COA:H32	1.93	0.50
1:B:607:THR:HG21	1:B:617:PHE:CE1	2.48	0.49
1:A:651:ASN:HD22	1:A:653:ARG:HH21	1.61	0.48
1:A:651:ASN:ND2	1:A:653:ARG:HH21	2.11	0.48
1:B:511:ILE:O	1:B:515:LEU:HG	2.12	0.48
1:B:501:ASN:O	1:B:502:SER:C	2.52	0.48
1:B:593:LEU:HD13	1:B:597:HIS:CD2	2.48	0.48
1:A:593:LEU:HD13	1:A:605:PHE:CZ	2.49	0.48
1:B:593:LEU:O	1:B:597:HIS:HD2	1.98	0.47
1:B:506:LYS:C	1:B:508:ASN:H	2.18	0.47
1:A:543:HIS:HE1	3:A:9:HOH:O	1.97	0.46
1:B:561:ARG:HH11	1:B:561:ARG:HG3	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:528:ARG:HH22	1:A:612:TYR:HE2	1.59	0.46
1:A:651:ASN:ND2	1:A:653:ARG:NH2	2.63	0.46
1:B:508:ASN:HD21	1:B:510:LYS:HB3	1.81	0.46
1:A:540:ASP:OD2	1:A:543:HIS:HD2	1.98	0.46
1:A:569:THR:HG22	1:A:571:ILE:HD12	1.98	0.46
1:B:594:LYS:HG2	1:B:650:LEU:HD21	1.97	0.45
1:A:493:VAL:HB	1:A:551:ASP:OD1	2.16	0.45
1:B:638:LYS:HG2	1:B:640:TYR:CZ	2.52	0.45
1:A:582:VAL:N	2:A:701:COA:O5A	2.43	0.45
1:B:511:ILE:HD12	1:B:515:LEU:HD11	1.98	0.45
1:B:508:ASN:ND2	1:B:510:LYS:HB3	2.32	0.44
1:B:530:PRO:HG2	1:B:533:TYR:HB2	2.00	0.44
1:A:628:ILE:HA	1:A:629:PRO:HD3	1.88	0.44
1:A:512:LEU:HD12	1:A:512:LEU:HA	1.89	0.44
1:B:546:LEU:HD11	1:B:592:HIS:HD2	1.83	0.44
1:B:605:PHE:O	1:B:647:GLY:HA2	2.18	0.44
1:B:561:ARG:HD3	1:B:561:ARG:C	2.38	0.43
1:A:574:CYS:O	1:A:575:ALA:HB2	2.18	0.43
1:A:609:ALA:O	1:A:643:ALA:HB1	2.19	0.43
1:B:518:LEU:HD23	1:B:554:VAL:HG21	1.99	0.43
1:B:548:LEU:CD2	1:B:585:TYR:HB3	2.48	0.43
1:B:619:LYS:HA	1:B:619:LYS:HD2	1.80	0.43
1:A:605:PHE:O	1:A:647:GLY:HA2	2.18	0.43
1:A:528:ARG:HH21	1:A:612:TYR:HE2	1.59	0.43
1:A:630:LYS:HA	1:A:633:TYR:CE2	2.53	0.43
1:A:605:PHE:HB2	1:A:648:CYS:HB3	2.01	0.42
1:A:506:LYS:N	1:A:506:LYS:HD3	2.32	0.42
1:A:544:LYS:NZ	3:A:81:HOH:O	2.50	0.42
1:B:508:ASN:O	1:B:512:LEU:HB2	2.19	0.42
1:B:546:LEU:HD22	1:B:593:LEU:HD23	2.01	0.42
1:B:566:GLN:HG2	1:B:632:LYS:O	2.19	0.42
1:A:650:LEU:HD12	1:A:650:LEU:N	2.35	0.41
1:A:574:CYS:CB	2:A:701:COA:S1P	3.04	0.41
1:B:546:LEU:O	1:B:557:GLY:HA2	2.20	0.41
1:B:528:ARG:NH2	1:B:612:TYR:HE1	2.16	0.41
1:B:645:LEU:HD12	1:B:646:MET:N	2.35	0.41
1:A:608:TYR:CZ	1:A:645:LEU:HD13	2.56	0.41
1:B:528:ARG:HH22	1:B:611:GLU:CD	2.25	0.41
1:B:543:HIS:CE1	1:B:561:ARG:HB2	2.56	0.41
1:B:492:LYS:HB2	1:B:492:LYS:HE2	1.90	0.40
1:B:568:PHE:C	1:B:568:PHE:CD1	2.94	0.40

All (1) 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:A:496:PHE:CE2	1:A:612:TYR:CE1[3_664]	2.13	0.07

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	161/168 (96%)	151 (94%)	8 (5%)	2 (1%)	15	16
1	B	160/168 (95%)	145 (91%)	10 (6%)	5 (3%)	5	3
All	All	321/336 (96%)	296 (92%)	18 (6%)	7 (2%)	8	6

All (7) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	504	ASN
1	B	502	SER
1	B	634	VAL
1	B	651	ASN
1	B	506	LYS
1	B	652	PRO
1	A	506	LYS

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	144/150 (96%)	140 (97%)	4 (3%)	49	65
1	B	136/150 (91%)	132 (97%)	4 (3%)	48	64
All	All	280/300 (93%)	272 (97%)	8 (3%)	48	64

All (8) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	511	ILE
1	B	561	ARG
1	B	593	LEU
1	B	639	ASP
1	A	506	LYS
1	A	561	ARG
1	A	593	LEU
1	A	649	GLU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (15) such sidechains are listed below:

Mol	Chain	Res	Type
1	B	501	ASN
1	B	508	ASN
1	B	543	HIS
1	B	588	HIS
1	B	591	ASN
1	B	592	HIS
1	B	597	HIS
1	B	620	GLN
1	A	501	ASN
1	A	505	GLN
1	A	543	HIS
1	A	591	ASN
1	A	600	HIS
1	A	620	GLN
1	A	651	ASN

5.3.3 RNA ⓘ

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](#)

2 ligands 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	$\# Z > 2$
2	COA	A	701	-	43,50,50	2.07	11 (25%)	48,75,75	1.65	6 (12%)
2	COA	B	700	-	43,50,50	2.05	10 (23%)	48,75,75	1.52	7 (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	COA	A	701	-	-	0/44/64/64	0/3/3/3
2	COA	B	700	-	-	0/44/64/64	0/3/3/3

All (21) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	701	COA	C2B-C1B	-3.10	1.48	1.53
2	B	700	COA	C2A-N3A	2.42	1.36	1.32
2	A	701	COA	OAP-CAP	2.61	1.47	1.42
2	A	701	COA	P3B-O7A	2.68	1.59	1.50
2	B	700	COA	P3B-O7A	2.73	1.60	1.50
2	B	700	COA	O4B-C4B	2.74	1.51	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	701	COA	CCP-CBP	2.84	1.56	1.52
2	B	700	COA	C3P-N4P	2.88	1.52	1.46
2	A	701	COA	O5P-C5P	3.04	1.29	1.23
2	B	700	COA	O5P-C5P	3.12	1.29	1.23
2	B	700	COA	C2A-N1A	3.15	1.39	1.33
2	A	701	COA	O4B-C4B	3.18	1.52	1.45
2	A	701	COA	C2A-N1A	3.22	1.40	1.33
2	A	701	COA	C3P-N4P	3.23	1.53	1.46
2	B	700	COA	CCP-CBP	3.58	1.57	1.52
2	B	700	COA	O4B-C1B	3.75	1.46	1.41
2	A	701	COA	O4B-C1B	4.38	1.47	1.41
2	A	701	COA	P3B-O3B	4.62	1.67	1.59
2	B	700	COA	P3B-O3B	5.65	1.69	1.59
2	B	700	COA	O9P-C9P	6.27	1.35	1.23
2	A	701	COA	O9P-C9P	6.38	1.35	1.23

All (13) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	701	COA	CEP-CBP-CCP	-6.58	98.70	108.37
2	B	700	COA	CEP-CBP-CCP	-5.29	100.60	108.37
2	A	701	COA	N3A-C2A-N1A	-3.26	126.02	128.86
2	B	700	COA	N3A-C2A-N1A	-2.80	126.42	128.86
2	B	700	COA	C6P-C7P-N8P	-2.41	106.88	111.87
2	B	700	COA	C2P-C3P-N4P	-2.38	107.32	112.50
2	A	701	COA	C2P-C3P-N4P	-2.33	107.43	112.50
2	B	700	COA	C4A-C5A-N7A	2.60	111.92	109.41
2	B	700	COA	CDP-CBP-CCP	2.72	112.36	108.37
2	A	701	COA	C4A-C5A-N7A	2.82	112.13	109.41
2	A	701	COA	CDP-CBP-CCP	3.03	112.81	108.37
2	A	701	COA	CEP-CBP-CAP	3.31	114.55	108.82
2	B	700	COA	CEP-CBP-CAP	3.39	114.71	108.82

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

2 monomers are involved in 11 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	701	COA	5	0
2	B	700	COA	6	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

6.1 Protein, DNA and RNA chains

EDS was not executed - this section is therefore empty.

6.2 Non-standard residues in protein, DNA, RNA chains

EDS was not executed - this section is therefore empty.

6.3 Carbohydrates

EDS was not executed - this section is therefore empty.

6.4 Ligands

EDS was not executed - this section is therefore empty.

6.5 Other polymers

EDS was not executed - this section is therefore empty.