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Gene synthesis, expression in *Escherichia coli*, purification and characterization of the recombinant bovine acyl-CoA-binding protein

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Biochemical Journal, 1991, 276 (Pt 3), 817-23.

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#	Paper	IF	Citations
62	The secondary structure in solution of acyl-coenzyme A binding protein from bovine liver using 1H nuclear magnetic resonance spectroscopy. <i>Biochemistry</i> , 1991 , 30, 10654-63	3.2	28
61	Acyl-CoA-binding and transport, an alternative function for diazepam binding inhibitor (DBI), which is identical with acyl-CoA-binding protein. <i>Neuropharmacology</i> , 1991 , 30, 1405-10	5.5	30
60	Induction of acyl-CoA-binding protein and its mRNA in 3T3-L1 cells by insulin during preadipocyte-to-adipocyte differentiation. <i>Biochemical Journal</i> , 1991 , 277 (Pt 2), 341-4	3.8	51
59	A fast and versatile method for extraction and quantitation of long-chain acyl-CoA esters from tissue: content of individual long-chain acyl-CoA esters in various tissues from fed rat. <i>Analytical Biochemistry</i> , 1992 , 207, 63-7	3.1	47
58	Electrospray mass spectrometry characterization of post-translational modifications of barley alpha-amylase 1 produced in yeast. <i>Nature Biotechnology</i> , 1993 , 11, 1162-5	44.5	18
57	Characterization of ligand binding to acyl-CoA-binding protein. <i>Biochemical Journal</i> , 1993 , 290 (Pt 2), 321-6	3.8	152
56	Effect of heterologous expression of acyl-CoA-binding protein on acyl-CoA level and composition in yeast. <i>Biochemical Journal</i> , 1993 , 290 (Pt 2), 369-74	3.8	92
55	Interaction of acyl-CoA binding protein (ACBP) on processes for which acyl-CoA is a substrate, product or inhibitor. <i>Biochemical Journal</i> , 1993 , 292 (Pt 3), 907-13	3.8	173
54	A hydroxyproline-containing class IV chitinase of sugar beet is glycosylated with xylose. <i>Plant Molecular Biology</i> , 1994 , 25, 241-57	4.6	44
53	Yeast acyl-CoA-binding protein: acyl-CoA-binding affinity and effect on intracellular acyl-CoA pool size. <i>Biochemical Journal</i> , 1994 , 302 (Pt 2), 479-85	3.8	90
52	Acyl-CoA-binding protein (ACBP) can mediate intermembrane acyl-CoA transport and donate acyl-CoA for beta-oxidation and glycerolipid synthesis. <i>Biochemical Journal</i> , 1994 , 299 (Pt 1), 165-70	3.8	191
51	Purification and characterization of a cadmium-induced metallothionein from the shore crab <i>Carcinus maenas</i> (L.). <i>Biochemical Journal</i> , 1994 , 297 (Pt 3), 609-14	3.8	74
50	Fatty acyl-CoA oxidase activity is induced before long-chain acyl-CoA hydrolase activity and acyl-CoA binding protein in liver of rat treated with peroxisome proliferating 3-thia fatty acids. <i>Xenobiotica</i> , 1995 , 25, 1181-94	2	17
49	Evaluation of mass spectrometric techniques for characterization of engineered proteins. <i>Molecular Biotechnology</i> , 1995 , 4, 1-12	3	14
48	Thermodynamics of ligand binding to acyl-coenzyme A binding protein studied by titration calorimetry. <i>Biochemistry</i> , 1996 , 35, 14118-26	3.2	125
47	Probing the Nature of Noncovalent Interactions by Mass Spectrometry. A Study of Protein-CoA Ligand Binding and Assembly. <i>Journal of the American Chemical Society</i> , 1996 , 118, 8646-8653	16.4	285
46	Acyl-CoA binding proteins inhibit the nonenzymic S-acylation of cysteinyl-containing peptide sequences by long-chain acyl-CoAs. <i>Biochemistry</i> , 1997 , 36, 5546-53	3.2	42

45	Lipid metabolism in the lactating mammary gland. <i>Lipids and Lipid Metabolism</i> , 1997 , 1347, 101-26		180
44	Combining MALDI mass spectrometry and biomolecular interaction analysis using a biomolecular interaction analysis instrument. <i>Analytical Chemistry</i> , 1998 , 70, 2731-6	7.8	106
43	Structure and function of normal and transformed murine acyl-CoA binding proteins. <i>Archives of Biochemistry and Biophysics</i> , 1998 , 350, 201-13	4.1	41
42	Fatty acyl-CoA binding domain of the transcription factor FadR. Characterization by deletion, affinity labeling, and isothermal titration calorimetry. <i>Journal of Biological Chemistry</i> , 1998 , 273, 33652-9	5.4	51
41	Evidence for triacylglycerol synthesis in the lumen of microsomes via a lipolysis-esterification pathway involving carnitine acyltransferases. <i>Journal of Biological Chemistry</i> , 1999 , 274, 35577-82	5.4	45
40	The formation of a native-like structure containing eight conserved hydrophobic residues is rate limiting in two-state protein folding of ACBP. <i>Nature Structural Biology</i> , 1999 , 6, 594-601		120
39	Conserved residues and their role in the structure, function, and stability of acyl-coenzyme A binding protein. <i>Biochemistry</i> , 1999 , 38, 2386-94	3.2	59
38	Formation of hydrogen bonds precedes the rate-limiting formation of persistent structure in the folding of ACBP. <i>Journal of Molecular Biology</i> , 2000 , 301, 1307-14	6.5	28
37	Differential effects of acyl-CoA binding protein on enzymatic and non-enzymatic thioacylation of protein and peptide substrates. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2000 , 1485, 185-98	5	35
36	Binding site differences revealed by crystal structures of Plasmodium falciparum and bovine acyl-CoA binding protein. <i>Journal of Molecular Biology</i> , 2001 , 309, 181-92	6.5	49
35	The interaction of acyl-CoA with acyl-CoA binding protein and carnitine palmitoyltransferase I. <i>International Journal of Biochemistry and Cell Biology</i> , 2001 , 33, 807-15	5.6	31
34	Early kinetic intermediate in the folding of acyl-CoA binding protein detected by fluorescence labeling and ultrarapid mixing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 9807-12	11.5	89
33	Acyl-CoA binding protein expression is fiber type- specific and elevated in muscles from the obese insulin-resistant Zucker rat. <i>Diabetes</i> , 2002 , 51, 449-54	0.9	39
32	Fluorescently labelled bovine acyl-CoA-binding protein acting as an acyl-CoA sensor: interaction with CoA and acyl-CoA esters and its use in measuring free acyl-CoA esters and non-esterified fatty acids. <i>Biochemical Journal</i> , 2002 , 365, 165-72	3.8	20
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30	Optical characterization of armadillo acyl-CoA binding protein. <i>International Journal of Biological Macromolecules</i> , 2002 , 31, 19-27	7.9	4
29	Acyl-coenzyme A binding protein expression is fibre-type specific in rat skeletal muscle but not affected by moderate endurance training. <i>Pflugers Archiv European Journal of Physiology</i> , 2002 , 443, 387-93	4.6	7
28	Acyl-coenzyme A organizes laterally in membranes and is recognized specifically by acyl-coenzyme A binding protein. <i>FEBS Letters</i> , 2003 , 552, 253-8	3.8	21

27	Improvement of hydrogen bond geometry in protein NMR structures by residual dipolar couplings--an assessment of the interrelation of NMR restraints. <i>Journal of Biomolecular NMR</i> , 2004 , 28, 31-41	3	3
26	Short-range, long-range and transition state interactions in the denatured state of ACBP from residual dipolar couplings. <i>Journal of Molecular Biology</i> , 2004 , 339, 1191-9	6.5	72
25	Different secondary structure elements as scaffolds for protein folding transition states of two homologous four-helix bundles. <i>Proteins: Structure, Function and Bioinformatics</i> , 2005 , 59, 80-90	4.2	38
24	Regulation of lipolytic activity by long-chain acyl-coenzyme A in islets and adipocytes. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2005 , 289, E1085-92	6	29
23	Reversible dimerization of acid-denatured ACBP controlled by helix A4. <i>Biochemistry</i> , 2005 , 44, 1375-84	3.2	15
22	High resolution crystal structures of unliganded and liganded human liver ACBP reveal a new mode of binding for the acyl-CoA ligand. <i>Proteins: Structure, Function and Bioinformatics</i> , 2007 , 66, 229-38	4.2	28
21	Thia fatty acids with the sulfur atom in even or odd positions have opposite effects on fatty acid catabolism. <i>Lipids</i> , 2006 , 41, 169-77	1.6	12
20	Detection of initiation sites in protein folding of the four helix bundle ACBP by chemical shift analysis. <i>FEBS Letters</i> , 2007 , 581, 4965-71	3.8	43
19	Fractional ¹³ C enrichment of isolated carbons using [1- ¹³ C]- or [2- ¹³ C]-glucose facilitates the accurate measurement of dynamics at backbone C α and side-chain methyl positions in proteins. <i>Journal of Biomolecular NMR</i> , 2007 , 38, 199-212	3	145
18	Model-independent interpretation of NMR relaxation data for unfolded proteins: the acid-denatured state of ACBP. <i>Journal of Biomolecular NMR</i> , 2008 , 42, 163-77	3	26
17	Characterization of an acyl-coenzyme A binding protein predominantly expressed in human primitive progenitor cells. <i>Journal of Lipid Research</i> , 2008 , 49, 1103-12	6.3	22
16	How chain length and charge affect surfactant denaturation of acyl coenzyme A binding protein (ACBP). <i>Journal of Physical Chemistry B</i> , 2009 , 113, 13942-52	3.4	31
15	The role of decorated SDS micelles in sub-CMC protein denaturation and association. <i>Journal of Molecular Biology</i> , 2009 , 391, 207-26	6.5	116
14	Cooperative formation of native-like tertiary contacts in the ensemble of unfolded states of a four-helix protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 13306-11	11.5	39
13	The interplay between transient β helix formation and side chain rotamer distributions in disordered proteins probed by methyl chemical shifts. <i>Protein Science</i> , 2011 , 20, 2023-34	6.3	11
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9	Residue 146 regulates prolactin receptor folding, basal activity and ligand-responsiveness: potential implications in breast tumorigenesis. <i>Molecular and Cellular Endocrinology</i> , 2015 , 401, 173-88	4.4	8
8	Ligand binding to the ACBD6 protein regulates the acyl-CoA transferase reactions in membranes. <i>Journal of Lipid Research</i> , 2015 , 56, 1961-71	6.3	12
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6	Lipid membranes and acyl-CoA esters promote opposing effects on acyl-CoA binding protein structure and stability. <i>International Journal of Biological Macromolecules</i> , 2017 , 102, 284-296	7.9	6
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4	Molecular dynamics study of ACBP denaturation in alkyl sulfates demonstrates possible pathways of unfolding through fused surfactant clusters. <i>Protein Engineering, Design and Selection</i> , 2019 , 32, 175-190	10	10
3	Effects of Ligand Binding on the Energy Landscape of Acyl-CoA-Binding Protein. <i>Biophysical Journal</i> , 2020 , 119, 1821-1832	2.9	8
2	Expression of acyl-CoA-binding protein 5 from <i>Rhodnius prolixus</i> and its inhibition by RNA interference. <i>PLoS ONE</i> , 2020 , 15, e0227685	3.7	2
1	Genes Encoding Microbial Acyl Coenzyme A Binding Protein/Diazepam-Binding Inhibitor Orthologs Are Rare in the Human Gut Microbiome and Show No Links to Obesity. <i>Applied and Environmental Microbiology</i> , 2021 , 87, e0047121	4.8	2