

Recombinant Human ACBP, His-tagged

Cat. No. ACBP-3046H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ACBP
Species	Human
Source	E.coli
ProteinLength	87
Description	This gene encodes diazepam binding inhibitor, a protein that is regulated by hormones and is involved in lipid metabolism and the displacement of beta-carbolines and benzodiazepines, which modulate signal transduction at type A gamma-aminobutyric acid receptors located in brain synapses. The protein is conserved from yeast to mammals, with the most highly conserved domain consisting of seven contiguous residues that constitute the hydrophobic binding site for medium- and long-chain acyl-Coenzyme A esters. Diazepam binding inhibitor is also known to mediate the feedback regulation of pancreatic secretion and the postprandial release of cholecystokinin, in addition to its role as a mediator in corticotropin-dependent adrenal steroidogenesis. Three pseudogenes located on chromosomes 6, 8 and 16 have been identified. Multiple transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Jul 2008]
Form	Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 0.1M NaCl, 10% glycerol
Molecular Mass	12.2 kDa (107aa), confirmed by MALDI-TOF

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Purity	>95% by SDS - PAGE
Applications	SDS-PAGE
Notes	Small volumes of ACBP recombinant protein may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container's cap. Certain products may require to ship with dry ice.
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Warning	This product is for research use only. Not for use in diagnostic or therapeutic procedures.

GENE INFORMATION

Gene Name	DBI diazepam binding inhibitor (GABA receptor modulator, acyl-CoA binding protein) [Homo sapiens]
Official Symbol	DBI
Synonyms	DBI; DBI; EP; ACBP; ACBD1; CCK-RP; ACBP; acyl-CoA-binding protein; endozepine; GABA receptor modulator; diazepam-binding inhibitor; acyl coenzyme A binding protein; acyl-Coenzyme A binding domain containing 1; cholecystokinin-releasing peptide, trypsin-sensitizediazepam binding inhibitor (GABA receptor modulator, acyl-Coenzyme A binding protein)
Gene ID	1622
mRNA Refseq	NM_001079862

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Protein Refseq	NP_001073331
MIM	125950
UniProt ID	P07108
Chromosome Location	2q12-q21
Pathway	PPAR signaling pathway, organism-specific biosystem; PPAR signaling pathway, conserved biosystem
Function	benzodiazepine receptor binding; fatty-acyl-CoA binding; lipid binding

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