

DBI Protein, Human (103a.a, His)

Cat. No.:	HY-P72166
Synonyms:	ACBD1; ACBP; ACBP_HUMAN; Acyl CoA binding domain containing 1; Acyl CoA binding protein; Acyl Coenzyme A binding domain containing 1; Acyl coenzyme A binding protein; Acyl-CoA-binding protein; CCK RP; CCKRP; Cholecystokinin releasing peptide trypsin sensitive; DBI; Diazepam-binding inhibitor; Endozepine; EP; GABA receptor modulator; MGC70414
Species:	Human
Source:	E. coli
Accession:	P07108-2 (W2-I104)
Gene ID:	1622
Molecular Weight:	Approximately 14 kDa

PROPERTIES

AA Sequence	W G D L W L L P P A S A N P G T G T E A E F E K A A E E V R H L K T K P S D E E M L F I Y G H Y K Q A T V G D I N T E R P G M L D F T G K A K W D A W N E L K G T S K E D A M K A Y I N K V E E L K K K Y G I
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm solution of 50 mM Tris-HCL, 300 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	DBI, a versatile protein, exhibits a remarkable affinity for binding medium- and long-chain acyl-CoA esters, suggesting its potential role as an intracellular carrier for these molecules. Additionally, DBI demonstrates the ability to displace diazepam from the benzodiazepine (BZD) recognition site situated on the GABA type A receptor. This intriguing dual functionality raises the possibility that DBI serves as a neuropeptide, exerting modulation on the activity of the GABA receptor. Notably, DBI functions as a monomer in carrying out these interactions.
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Caution: Product has not been fully validated for medical applications. For research use only.

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