

Recombinant Human DBI, His-tagged

Cat. No. DBI-26687TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length Human Diazepam Binding Inhibitor with N terminal His tag, 1-87 aa , MWt 12.2 kDa.
Species	Human
Source	E.coli
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.
Conjugation	HIS
Form	Liquid
Purity	>95% by SDS-PAGE

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage buffer	Preservative: None Constituents: 10% Glycerol, 20mM Tris HCl, 100mM Sodium chloride, pH 8
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MSQAEFEKAA EEVRHLKTKP SDEEMLFYIG HYKQATVGDI NTERPGMLDF TGKAKWDawn ELKGTSKEDA MKAYINKVEE LKKKYGI

GENE INFORMATION

Gene Name	DBI diazepam binding inhibitor (GABA receptor modulator, acyl-CoA binding protein) [Homo sapiens]
Official Symbol	DBI
Synonyms	DBI; diazepam binding inhibitor (GABA receptor modulator, acyl-CoA binding protein); diazepam binding inhibitor (GABA receptor modulator, acyl Coenzyme A binding protein); acyl-CoA-binding protein; ACBD1; ACBP; endozepine;
Gene ID	1622
mRNA Refseq	NM_001178017
Protein Refseq	NP_001171488
MIM	125950
Uniprot ID	P07108

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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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