

Product datasheet for PH308982

Diazepam Binding Inhibitor (DBI) (NM_020548) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	DBI MS Standard C13 and N15-labeled recombinant protein (NP_065438)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC208982
Predicted MW:	11.8 kDa
Protein Sequence:	>RC208982 protein sequence Red=Cloning site Green=Tags(s) MWGDLWLLPPASANPGTGTEAEFEKAAEEVRHLKTKPSDEEMLFYGHYKQATVGDINTERPGMLDFTGK AKWDAWNELKGTSKEDAMKAYINKVEELKKKYGI TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_065438
RefSeq Size:	745
RefSeq ORF:	312
Synonyms:	ACBD1; ACBP; CCK-RP; EP
Locus ID:	1622
UniProt ID:	P07108 , A0A024RAF2 , B8ZWD2
Cytogenetics:	2q14.2



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Summary:

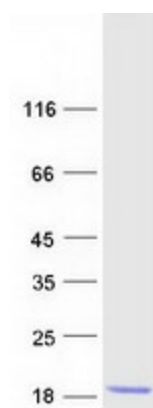
This gene encodes diazepam binding inhibitor, a protein that is regulated by hormones and is involved in lipid metabolism and the displacement of beta-carbolines and benzodiazepines, which modulate signal transduction at type A gamma-aminobutyric acid receptors located in brain synapses. The protein 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]

Protein Families:

Druggable Genome

Protein Pathways:

PPAR signaling pathway

Product images:

Coomassie blue staining of purified DBI protein (Cat# [TP308982]). The protein was produced from HEK293T cells transfected with DBI cDNA clone (Cat# [RC208982]) using MegaTran 2.0 (Cat# [TT210002]).