

DBI Protein, Mouse (*P. pastoris*, His)

Cat. No.:	HY-P700627
Synonyms:	Dbi; diazepam binding inhibitor; EP; Acbp; ACBD1; endozepine; acyl-CoA-binding protein; diazepam binding inhibitor, splice form 1b
Species:	Mouse
Source:	<i>P. pastoris</i>
Accession:	P31786 (S2-I87)
Gene ID:	13167
Molecular Weight:	11.9 kDa

PROPERTIES

AA Sequence	<p>S Q A E F D K A A E E V K R L K T Q P T D E E M L F I Y S H F K Q A T V G D V N</p> <p>T D R P G L L D L K G K A K W D S W N K L K G T S K E S A M K T Y V E K V D E L</p> <p>K K K Y G I</p>
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 filtered solution of 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0.
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	<p>The DBI Protein plays a crucial role in intracellular processes by binding with high affinity to medium- and long-chain acyl-CoA esters, suggesting its potential function as an intracellular carrier for these molecules. Additionally, DBI exhibits the ability to displace diazepam from the benzodiazepine (BZD) recognition site on the GABA type A receptor. This dual functionality raises the possibility that DBI may act as a neuropeptide, modulating the action of the GABA receptor. Structurally, the protein exists as a monomer, emphasizing its individual unit's significance in executing these diverse molecular interactions within cellular pathways.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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