

DBI Protein, Human, Recombinant (His)

General Information

Synonyms:	diazepam binding inhibitor (GABA receptor modulator, acyl-CoA binding protein);ACBD1; CCK-RP;ACBP
Protein Construction:	A DNA sequence encoding the human DBI (P07108-2) (Met1-Ala87) was expressed with a polyhistidine tag at the N-terminus. Predicted N terminal: His
Species:	Human
Expression Host:	E. coli
Accession:	P07108-2
Molecular Weight:	14 kDa (predicted); 18 kDa (reducing conditions)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin:	Please contact us for more information.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:
A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

The diazepam binding inhibitor (DBI), alternatively known as the acyl-CoA binding protein (ACBP), is involved in multiple biological actions. The polypeptide binds to the peripheral, or mitochondrial, benzodiazepine receptor and facilitates transport of cholesterol to the inner membrane to stimulate steroid synthesis. Through this action, DBI indirectly modulates gamma-aminobutyric acid (GABA)-mediated inhibitory neurotransmission. DBI can be

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postulated as a candidate gene for psychiatric phenotypes including anxiety, mood, and psychotic disorders. Diazepam Binding Inhibitor (DBI), also called acyl-CoA binding protein (ACBP), is a ubiquitously expressed protein originally identified based on its ability to displace diazepam from its binding site on the GABAA receptor. The mutant allele of the DBI was one of the risk factors for alcohol dependence as for the rs2276596 polymorphism.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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