Product Data Sheet

Product Name:	DBI Mouse
Cat. No.:	GP23293
Batch No.:	1

Product Data

Purity	>98%	Source	Escherichia Coli.
Phycical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Acyl-CoA-binding protein; ACBP; Diazepam-binding inhibitor; DBI; Endozepine; EP; Dbi.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSMSQAEFD KAAEEVKRLK TQPTDEEMLF IYSHFKQATV GDVNTDRPGL LDLKGKAKWD SWNKLKGTSK ESAMKTYVEK VDELKKKYGI		
Formulation	DBI protein solution (1mg/ml) contains Phosphate buffer saline (pH7.4).		

Introduction

DBI, also known as Acyl-CoA-binding protein isoform 2, is a diazepam binding inhibitor, which is regulated by hormones. DBI participates in lipid metabolism and in the displacement of beta-carbolines & benzodiazepines, which modulate signal transduction at type A gamma-aminobutyric acid receptors located in brain synapses. Moreover, during adipocyte differentiation the expression of DBI is significantly induced. DBI preforms as an acyl-CoA pool former and regulates LCFA (long-chain fatty acids) metabolism in peripheral tissues.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.

Background

DBI Mouse Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 110 amino acids (1-87 a.a) and having a molecular mass of 12.4kDa. DBI is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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