

Recombinant mouse ACBP/DBI protein

Catalog Number: ATGP3751

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-87aa

UniProt No.

P31786

NCBI Accession No.

NP_031856

Alternative Names

Acyl-CoA-binding protein, ACBP, Diazepam-binding inhibitor, DBI, Endozepine, EP

PRODUCT SPECIFICATION

Molecular Weight

12.4 kDa (110aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4)

Purity

> 95% by SDS-PAGE

Endotoxin level

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

Acbp, also known as Acyl-CoA-binding protein isoform 2, is a 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 modulates signal transduction at type A gamma-aminobutyric acid receptors located in brain synapses. Expression of Acbp is significantly induced during adipocyte differentiation. Acbp acts as an acyl-CoA pool former and regulates long-chain fatty acids (LCFA) metabolism in peripheral tissues. Recombinant

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mouse Acbp protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

MGSSHHHHHH SGLVPRGSH MGSMSQAEFD KAAEEVKRLK TQPTDEEMLF IYSHFKQATV GDVNTDRPGL
LDLKGKAKWD SWNKLKGTSK ESAMKTYVEK VDELKKKYGI

General References

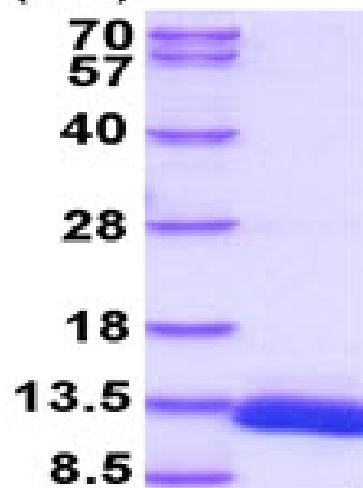
Bouyakdan K., et al. (2015) J Neurochem. 133(2):253-65.

Manjithaya R., et al. (2010) J Cell Biol. 188(4):537-46.

DATA

SDS-PAGE

(kDa)



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)