

Recombinant human ACBP/DBI protein

Catalog Number: ATGP0567

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-87aa

UniProt No.

P07108

NCBI Accession No.

NP_001073331

Alternative Names

Acyl-CoA-binding protein, ACBD1, CCK-RP, EP, DBI, Acyl-CoA-binding protein, Diazepam Binding Inhibitor Protein, GABA receptor modulator, Acyl-Coenzyme A binding protein, Endozepine

PRODUCT SPECIFICATION

Molecular Weight

12.2 kDa (107aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol

Purity

> 95% by SDS-PAGE

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 ACBD1, 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 modulate signal transduction at type A gamma-aminobutyric acid receptors located in brain synapses. Expression of ACBP is significantly induced during adipocyte differentiation. ACBP is a target for proliferator-activated receptor (PPAR) gamma, and is directly activated by PPARgamma/RXRalpha and PPARalpha/RXRalpha, but not by

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PPARdelta/RXRalpha. Recombinant human ACBP protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

MGSSHHHHHHH SSGLVPRGSH MSQAEFEKAA EEVRHLKTKP SDEEMLFYIG HYKQATVGDI NTERPGMLDF
TGKAKWDAWN ELKGTSKEDA MKAYINKVEE LKKKYGI

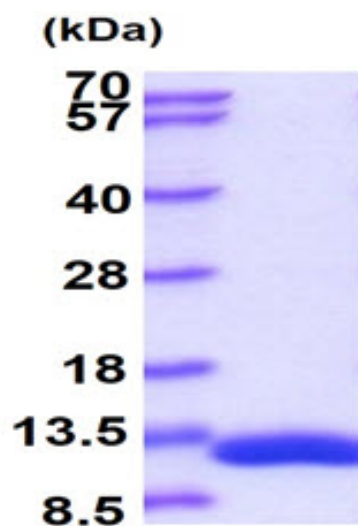
General References

Folli F., et al. (2010) PLoS One. 5(3):e9923.

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

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)