Recombinant human ACOT11 protein

Catalog Number: ATGP2436

PRODUCT INFORMATION

Expression system
E.coli

Domain
19-250aa

UniProt No.
Q8WXI4

NCBI Accession No.
NP_671517

Alternative Names
Thioesterase adipose associated isoform BFIT2, Acyl-CoA thioesterase 11, THEA, STASTARD14, BFIT, KIAA0707, BFIT1, THEM1

PRODUCT SPECIFICATION

Molecular Weight
29.9 kDa (268aa)

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

Purity
> 90% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE, Denatured

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
BFIT is a member of the acyl-CoA thioesterase family which catalyse the conversion of activated fatty acids to the corresponding non-esterified fatty acid and coenzyme A. Expression of a mouse homolog in brown adipose tissue is induced by low temperatures and repressed by warm temperatures. Higher levels of expression of the mouse homolog has been found in obesity-resistant mice compared with obesity-prone mice, suggesting a role of acyl-CoA thioesterase 11 in obesity. The protein has acyl-CoA thioesterase activity towards medium (C12) and

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long-chain (C18) fatty acyl-CoA substrates. Recombinant human BFIT protein, fused to His-tag at N-terminus, was expressed in E. coli

Amino acid Sequence

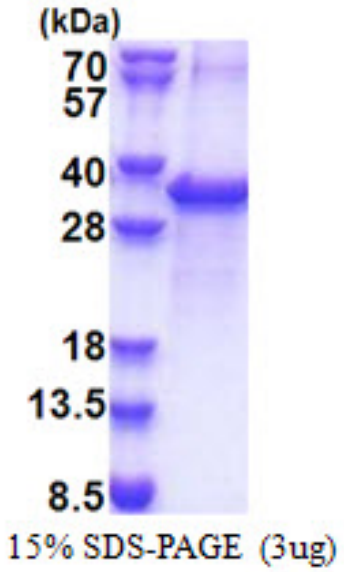
MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSNRTS RKSALRAGND SAMADGEGYR NPTEVQMSQL VLPCHTNQRG ELSVGQLLKW IDTTACLSAE RHAGCPCVTA SMDDIYFEHT ISVGQVVNIK AKVNRAFNSS MEVGIQVASE DLCSEKQWNV CKALATFVAR REITKVKLKQ ITPRTEEEKM EHSVAAERRR MRLVYADTIK DLLANCAIQG DLESRDCSRM VPAEKTRVES VELVLPPHAN HQGNTFGGQI MAWMENVA

General References

Thorsell AG, Lee WH., et al. (2011) Plos One 6 p.19521

DATA

SDS-PAGE



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