

Recombinant human ACOT8 protein

Catalog Number: ATGP2115

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-319aa

UniProt No.

O14734

NCBI Accession No.

NP_005460.2

Alternative Names

Acyl-coenzyme A thioesterase 8, hACTE-III, HNAACTE, the, PTE-1, PTE-2, PTE1, PTE2

PRODUCT SPECIFICATION

Molecular Weight

38.3 kDa (342aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 40% glycerol, 2mM DTT

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

Acyl-coenzyme A thioesterase 8, also known as ACOT8, are a group of enzymes that catalyze the hydrolysis of acyl-CoAs to the free fatty acid and coenzyme A (CoASH), providing the potential to regulate intracellular levels of acyl-CoAs, free fatty acids and CoASH. This protein may mediate Nef-induced down-regulation of CD4. It competes with BAAT (Bile acid CoA: amino acid N-acyltransferase) for bile acid-CoA substrate (such as chenodeoxycholoyl-CoA). ACOT8 shows a preference for medium-length fatty acyl-CoAs. Recombinant human ACOT8 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional

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chromatography techniques.

Amino acid Sequence

<MGSSHHHHH SSGLVPRGSH MGS>MSSPQAP EDGQGCGDRG DPPGDLRSVL VTTVLNLEPL DEDLFRGRHY
WVPAKRLFGG QIVGQALVAA AKSVSEVDHV HSLHCYFVRA GDPKLPVLYQ VERTRTGSSF SVRSVKAVQH GKPIFICQAS
FQQAQPSPMQ HQFSMPTVPP PEELDCETL IDQYLRDPNL QKRYPLALNR IAAQEVPIEI KPVNPSPLSQ LQRMEPKQMF
WVRARGYIGE GDMKMHCCVA AYISDYAFLG TALLPHQWQH KVHFMVSLDH SMWFHAPFRA DHWMLYECES
PWAGGSRGLV HGRLWRQDGV LAVTCAQEGV IRVKPQVSES KL

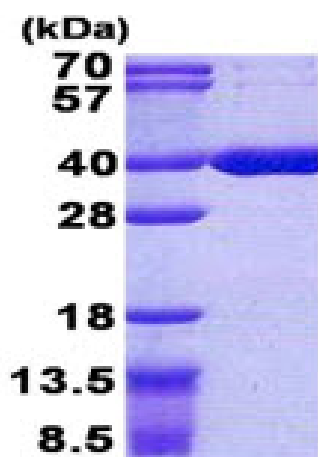
General References

Ishizuka M., et al. (2004) Exp. Cell Res. 297:127-141

Hunt M.C., et al. (2002) Prog. Lipid Res. 41:99-130

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)