

## Recombinant Human ACOT8, His-tagged

**Cat. No.** ACOT8-7604H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant human ACOT8 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>ProteinLength</b>    | 1-319aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | 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. |
| <b>Form</b>             | Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 40% glycerol, 2mM DTT                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Molecular Mass</b>   | 38.3 kDa (342aa)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>AA Sequence</b>      | MGSSHHHHHH SSGLVPRGSH MGSMSSPQAP EDGQGCGDRG DPPGDLRSVL<br>VTTVLNLEPL DEDLFRGRHY WVPAKRLFGG QIVGQALVAA AKSVSEVDVHV<br>HSLHCYFVRA GPKLPVLYQ VERTRTGSSF SVRSVKAVQH GKPIFICQAS                                                                                                                                                                                                                                                                                                                                                        |

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FQQAQPSPMQ HQFSMPTVPP PEELDCETL IDQYLRDPNL QKRYPLALNR  
IAAQEVPIEI KPVNPSPLSQ LQRMEPKQMF WVRARGYIGE GDMKMHCCVA  
AYISDYAFLG TALLPHQWQH KVHFMVSLDH SMWFHAPFRA DHWMLYECES  
PWAGGSRGLV HGRLWRQDGV LAVTCAQEGV IRVKPQVSES KL

**Purity** >95% by SDS - PAGE

**Applications** SDS-PAGE

**Storage** Can be stored at 4°C short term. For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

**Concentration** 1 mg/ml?

## GENE INFORMATION

**Gene Name** [ACOT8 acyl-CoA thioesterase 8 \[ Homo sapiens \]](#)

**Official Symbol** ACOT8

**Synonyms** ACOT8; acyl-CoA thioesterase 8; peroxisomal acyl CoA thioesterase , peroxisomal acyl CoA thioesterase 1 , PTE1; acyl-coenzyme A thioesterase 8; choloyl CoA hydrolase; hACTE III; hTE; PTE 2; thioesterase II; thioesterase III; choloyl-CoA hydrolase; palmitoyl-CoA hydrolase; choloyl-coenzyme A thioesterase; long-chain fatty-acyl-CoA hydrolase; peroxisomal acyl-CoA thioesterase 1; HIV-Nef associated acyl-CoA thioesterase; peroxisomal long-chain acyl-CoA thioesterase 1; peroxisomal acyl-coenzyme A thioester hydrolase 1; PTE1; PTE2; PTE-1; PTE-2; HNAACTE; hACTE-III;

**Gene ID** [10005](#)

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|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>mRNA Refseq</b>         | NM_005469                                                                                                                                                                                                                                                                                                                                                     |
| <b>Protein Refseq</b>      | NP_005460                                                                                                                                                                                                                                                                                                                                                     |
| <b>MIM</b>                 | 608123                                                                                                                                                                                                                                                                                                                                                        |
| <b>UniProt ID</b>          | O14734                                                                                                                                                                                                                                                                                                                                                        |
| <b>Chromosome Location</b> | 20pter-p12.3                                                                                                                                                                                                                                                                                                                                                  |
| <b>Pathway</b>             | Beta-oxidation of pristanoyl-CoA, organism-specific biosystem; Beta-oxidation of very long chain fatty acids, organism-specific biosystem; Bile acid and bile salt metabolism, organism-specific biosystem; Bile acid biosynthesis, cholesterol => cholate, organism-specific biosystem; Bile acid biosynthesis, cholesterol => cholate, conserved biosystem; |
| <b>Function</b>            | acyl-CoA hydrolase activity; carboxylesterase activity; choloyl-CoA hydrolase activity; hydrolase activity; protein binding;                                                                                                                                                                                                                                  |

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