# Recombinant Human ACOT8, His-tagged

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

## SPECIFICATION

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

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| | FQQAQPSPMQ HQFSMPTVPP PEELLDCETL 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

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| **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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| **mRNA Refseq** | NM_005469 |
| **Protein Refseq** | NP_005460 |
| **MIM** | 608123 |
| **UniProt ID** | O14734 |
| **Chromosome Location** | 20pter-p12.3 |
| **Pathway** | 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; |
| **Function** | acyl-CoA hydrolase activity; carboxylesterase activity; choloyl-CoA hydrolase activity; hydrolase activity; protein binding; |

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