

Recombinant Human Acyl-CoA Thioesterase 7, His-tagged

Cat. No. ACOT7-1340H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human ACOT7 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
Description	ACOT7 is a member of the acyl coenzyme family. This protein hydrolyzes the CoA thioester of palmitoyl-CoA and other long-chain fatty acids. Decreased expression of this protein may be associated with mesial temporal lobe epilepsy. Alternatively spliced transcript variants encoding distinct isoforms with different subcellular locations have been characterized.
Form	Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT, 10% glycerol, 0.15 M NaCl.
Molecular Weight	42.6 kDa (390 aa), confirmed by MALDI-TOF
Purity	> 95 % by SDS-PAGE
Concentration	1 mg/ml (determined by Bradford)
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MARPGLIHSA PGLPDTCALL QPPAASAAAA PSMSGPDVET PSAIQICRIM RPDDANVAGN VHGGTILKMI EEAGAIISTR HCNSQNGERC VAALARVERT DFLSPMCIGE VAHVSAEITY TSKHSVEVQV

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NVMSENILTG AKKLTNKATL WYVPLSLKNV DKVLEVPPVV YSRQEQUEEG
 RKRYEAQKLE RMETKWRNGD IVQPVLNPEP NTVSYSQSSL IHLVGPSDCT
 LHGFVHGGVT MKLMDEVAGI VAARHCKTNI VTASVDAINF HDKIRKGCVI
 TISGRMTFTS NKSMEIEVLV DADPVVDSSQ KRYRAASAFF TYVSLSQEGR
 SLPVPQLVPE TEDEKKRFEE GKGRYLQMKa KRQGHAEPPQ

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Pathways

Biosynthesis of unsaturated fatty acids; Fatty acid elongation

GENE INFORMATION
Gene Name

[ACOT7 acyl-CoA thioesterase 7 \[Homo sapiens \]](#)

Official Symbol

ACOT7

Synonyms

ACOT7; acyl-CoA thioesterase 7; ACT; ACH1; BACH; LACH; LACH1; hBACH; CTE-II; MGC1126; cytosolic acyl coenzyme A thioester hydrolase; CTE-IIa; OTTHUMP00000001410; OTTHUMP00000001413; OTTHUMP00000001414; OTTHUMP00000001415; OTTHUMP00000200492; OTTHUMP00000200493; acyl-CoA thioesterase 2; brain acyl CoA hydrolase; brain acyl-CoA hydrolase; acyl-CoA thioesterase, long chain; long chain acyl-CoA thioester hydrolase; NP_009205.3; EC 3.1.2.2

Gene ID

[11332](#)

mRNA Refseq

[NM_007274](#)

Protein Refseq

[NP_009205](#)

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MIM	602587
UniProt ID	O00154
Chromosome Location	1p36
Function	acyl-CoA hydrolase activity; carboxylesterase activity; catalytic activity; fatty-acyl-CoA binding; hydrolase activity; palmitoyl-CoA hydrolase activity

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