

Recombinant Human ACAA1, His-tagged

Cat. No. ACAA1-26046TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human ACAA1 with an N terminal His tag; 419 amino acids including tag, MWt 43.8kDa.
Species	Human
Source	E.coli
ProteinLength	398 amino acids
Description	This gene encodes an enzyme operative in the beta-oxidation system of the peroxisomes. Deficiency of this enzyme leads to pseudo-Zellweger syndrome. Alternative splicing results in multiple transcript variants.
Conjugation	HIS
Molecular Weight	43.800kDa
Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 10% Glycerol, 0.1M Sodium chloride, 20mM Tris HCl, 1mM DTT, pH 8.0
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid

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repeated freeze / thaw cycles.

Sequences of amino acids

MGSSHHHHHSSGLVPRGSHMLSGAPQASAADV VVVHGRRTAICRAGRGGFKDT
 TPDELLSAVMTAVLKDVNLRPEQLGDICVGNVLQPGAGAIMARIAQFLSDIPETVPLS
 TVNRQCSSGLQAVASIAGGIRNGSYDIGMACGVESMSLADRGNPGNITSRLMEKEK
 ARDCLIPMGITSENAERFGISREKQDTFALASQQKAARAQSKGCFQAEIVPVT TTV
 HDDKGTKRSITVTQDEGIRPSTTMEGLAKLKP AFKKDGSTTAGNSSQVSDGAAAILL
 ARRSKAEELGLPILGVLRSYAVVGVPPDIMGIGPAYAIPVALQKAGLTVSDVDIFEINE
 AFASQAAYCVEKLRLPPEKVNPLGGAVALGHPLGCTGARQVITLLNELKRRGKRAY
 GVVSMCIGTGMGAAAVFEYPGN

Sequence Similarities

Belongs to the thiolase family.

GENE INFORMATION

Gene Name [ACAA1 acetyl-CoA acyltransferase 1 \[Homo sapiens \]](#)

Official Symbol [ACAA1](#)

Synonyms ACAA1; acetyl-CoA acyltransferase 1; acetyl Coenzyme A acyltransferase 1; 3-ketoacyl-CoA thiolase, peroxisomal; peroxisomal 3 oxoacyl Coenzyme A thiolase;

Gene ID [30](#)

mRNA Refseq [NM_001130410](#)

Protein Refseq [NP_001123882](#)

MIM [604054](#)

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Uniprot ID	P09110
Chromosome Location	3p23-p22
Pathway	Beta-oxidation of very long chain fatty acids, organism-specific biosystem; Biosynthesis of unsaturated fatty acids, organism-specific biosystem; Biosynthesis of unsaturated fatty acids, conserved biosystem; Fatty acid metabolism, organism-specific biosystem; Fatty acid metabolism, conserved biosystem;
Function	acetyl-CoA C-acyltransferase activity; protein binding; transferase activity, transferring acyl groups other than amino-acyl groups;

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