Recombinant Human ACOX1

Cat. No. ACOX1-26477TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human ACOX1 with N-Terminal proprietary tag. Mol Wt 98.71 kDa inclusive of tag.
Species	Human
Source	Wheat Germ
ProteinLength	660 amino acids
Description	The protein encoded by this gene is the first enzyme of the fatty acid beta-oxidation pathway, which catalyzes the desaturation of acyl-CoAs to 2-trans-enoyl-CoAs. It donates electrons directly to molecular oxygen, thereby producing hydrogen peroxide. Defects in this gene result in pseudoneonatal adrenoleukodystrophy, a disease that is characterized by accumulation of very long chain fatty acids. Alternatively spliced transcript variants encoding different isoforms have been identified.
Molecular Weight	98.710kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw

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	cycles.
Sequences of amino acids	MNPDLRRERDSASFNPELLTHILDGSPEKTRRRREIENMI LNDPDFQHEDLNFLTRS QRYEVAVRKSAIMVKKMREFGIA DPDEIMWFKNFVHRGRPEPLDLHLGMFLPTLLH QATAEQQ ERFFMPAWNLEIIGTYAQTEMGHGTHLRGLETIATYDPET QEFILNSPTV TSIKWWPGGLGKTSNHAIVLAQLITKGKCY GLHAFIVPIREIGTHKPLPGITVGDIGPK FGYDEIDNGYL KMDNHRIPRENMLMKYAQVKPDGTYVKPLSNKLTYGTMVF VRSF LVGEAARALSKACTIAIRYSAVRHQSEMKPGEPEPQ ILDFQTQQYKLFPLLATAYAF QFVGAYMKETYHRINEGIG QGDLSELPELHALTAGLKAFTSWTANTGIEACRMACG GHG YSHCSGLPNIYVNFTPSCTFEGENTVMMLQTARFLMKSYD QVHSGKLVCGM VSYLNDLPSQRIQPQQVAVWPTMVDINSP ESLTEAYKLRAARLVEIAAKNLQKEVIH RKSKEVAWNLTS VDLVRASEAHCHYVVVKLFSEKLLKIQDKAIQAVLRSLCL LYSLY GISQNAGDFLQGSIMTEPQITQVNQRVKELLTLIR SDAVALVDAFDFQDVTLGSVLG RYDGNVYENLFEWAKNSP LNKAEVHESYKHLKSLQSKL
Sequence Similarities	Belongs to the acyl-CoA oxidase family.

GENE INFORMATION

Gene Name	ACOX1 acyl-CoA oxidase 1, palmitoyl [Homo sapiens]
Official Symbol	ACOX1
Synonyms	ACOX1; acyl-CoA oxidase 1, palmitoyl; acyl Coenzyme A oxidase 1, palmitoyl; peroxisomal acyl-coenzyme A oxidase 1; PALMCOX;
Gene ID	51
mRNA Refseq	NM_001185039

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Protein Refseq	NP_001171968
MIM	609751
Uniprot ID	Q15067
Chromosome Location	17q25.1
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	acyl-CoA dehydrogenase activity; acyl-CoA oxidase activity; acyl-CoA oxidase activity; acyl-CoA oxidase activity; flavin adenine dinucleotide binding;

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