

Recombinant Human ACOX1 Protein, GST-Tagged

Cat. No. ACOX1-172H Lot. No. (See product label)

SPECIFICATION

Product Overview	Human ACOX1 full-length ORF (AAH10425, 1 a.a. - 660 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	<p>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. [provided by RefSeq, Jul 2008]</p>
Molecular Mass	98.34 kDa
AA Sequence	<p>MNPDLRRERDSASFNPPELLTHILDGSPEKTRRRREIENMILNDPDFQHEDLNFLTRS QRYEVAVRKSAIMVKKMREFGIADPDEIMWFKNFVHRGRPEPLDLHLGMFLPTLLH QATAEQQERFFMPAWNLEIIGTYAQTEMGHGTHLRGLETIATYDPETQEFILNSPTVT SIKWWPGGLGKTSNHAIVLAQLITKGKCYGLHAFIVPIREIGTHKPLPGITVGDIGPKF GYDEIDNGYLKMDNHRIPRENMLMKYAQVKPDGTYVKPLSNKLTYGTMVFVRSFLV GEARALSKACTIAIRYSAVRHQSEMKPGEPEPQILDFQTQQYKLFPLLATAYAFQFV GAYMKETYHRINEGIGQGDLSELPELHALTAGLKAFTSWTANTGIEACRMACGGHG</p>

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YSHCSGLPNIYVNFTPSCTFEGENTVMMLQATARFLMKSYDQVHSGKLVCGMVSYLN
 DLPSQRIQPQQVAVWPTMVDINSPESL TEAYKLRAARLVEIAAKNLQKEVIHRKSKEV
 AWNLTSVDLVRASEAHCHYVVVKLFSEKLLKIQDKAIQAVLRSLCLLYSLYGISQNAG
 DFLQGSIMTEPQITQVNQRVKELLTLIRSDAVALVDAFDQDVTLGSVLGRYDGNVY
 ENLFEWAKNSPLNKAEVHESYKHLKSLQSKL

Applications
 Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes
 Best use within three months from the date of receipt of this protein.

Storage
 Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer
 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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; AOX; palmitoyl-CoA oxidase;
 straight-chain acyl-CoA oxidase; acyl-CoA oxidase, straight-chain; peroxisomal fatty
 acyl-CoA oxidase; acyl-Coenzyme A oxidase 1, palmitoyl; ACOX; SCOX; MGC1198;

Gene ID [51](#)

mRNA Refseq [NM_001185039](#)

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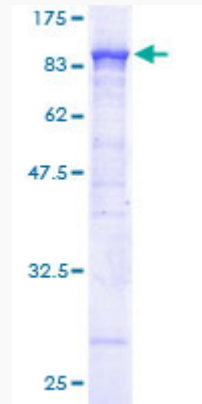
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Protein Refseq NP_001171968

MIM 609751

UniProt ID Q15067



12.5% SDS-PAGE Stained with Coomassie Blue.

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