

Recombinant Full Length Human ACOX1 Protein

Cat. No. ACOX1-10HF **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	In Vitro Cell Free System
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.
Form	Liquid
Molecular Mass	98.710kDa inclusive of tags
AA Sequence	MNPDLRRERD SASFNPELLT HILDGSPEKT RRRREIENMI LNDPDFQHED LNFLTRSQRY EVAVRKS AIM VKKMREFGIA DPDEIMWFKN FVHRGRPEPL DLHLGMFLPT LLHQATAEQQ ERFFMPAWN L EIIGTYAQTE MGHGTHLRGL ETIATYDPET QEFILNSPTV TSIKWWPGGL GKTSNHAIVL AQLITKGKCY GLHAFIVPIR EIGTHKPLPG ITVGDIGPKF GYDEIDNGYL KMDNHRIPRE

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NMLMKYAQVK PDGTYVKPLS NKLTYGTMVF VRSFLVGEAA RALSKACTIA
 IRYSVRHQHS EMKPGEPEPQ ILDFQTQQYK LFPLLATAYA FQFVGAYMKE
 TYHRINEGIG QGDLSPEL HALTAGLKAF TSWTANTGIE ACRMAGGHHG
 YSHCSGLPNI YVNFTPSTF EGENTVMMLQ TARFLMKSVD QVHSGKLVCG
 MVSYLNDLPS QRIQPQQVAV WPTMVDINSP ESLTEAYKLR AARLVEIAAK
 NLQKEVIHRK SKEVAWNLTS VDLVRASEAH CHYVVVKLFS EKLLKIQDKA
 IQAVLRSLCL LYSLYGISQN AGDFLQGSIM TEPQITQVNQ RVKELLTLIR
 SDAVALVDAF DFQDVTLGSV LGRYDGNVYE NLFWEAKNSP LNKAHVHESY
 KHLKSLQSKL

Purity Proprietary Purification

Storage Shipped on dry ice. Upon delivery aliquot and store at -80 centigrade. Avoid freeze / thaw cycles.

Storage Buffer pH: 8.00. Constituents: 0.3% Glutathione, 0.79% Tris HCl.

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](#)

Protein Refseq [NP_001171968](#)

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MIM	609751
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UniProt ID	Q15067
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