

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 EVAVRKSAIM VKKMREFGIA DPDEIMWFKN FVHRGRPEPL DLHLGMFLPT LLHQATAEQQ ERFFMPAWN L EIIGTYAQTE MGHGTHLRGL ETIATYDPET QEFILNSPTV TSIKWWPGGL GKTSNHAVL AQLITKGKCY GLHAFIVPIR EIGTHKPLPG ITVGDIGPKF GYDEIDNGYL KMDNHRIPRE

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



MIM 609751

UniProt ID Q15067

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