

Recombinant Full Length Human ACOX1 Protein, GST-tagged

Cat. No. ACOX1-794HF **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	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. [provided by RefSeq, Jul 2008]
Molecular Mass	98.34 kDa
AA Sequence	MNPDLRRERD SASFNPELLT HILDGSPEKT RRRREIENMI LNDPDFQHED LNFLTRSQRY EVAVRKSAIM VKKMREFGIA DPDEIMWFKN FVHRGRPEPL DLHLGMFLPT LLHQATAEQQ ERFFMPAWNL EIIGTYAQTE MGHGTHLRGL ETIATYDPET QEFILNSPTV TSIKWWPGGL GKTSNHAIVL AQLITKGKCY GLHAFIVPIR EIGTHKPLPG ITVGDIGPKF GYDEIDNGYL KMDNHRIPRE NMLMKYAQVK PDGTYVKPLS NKLTGYTMVF VRSFLVGEAA RALSKACTIA

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IRYSAVRHQS EMKPGEPEPQ ILDFQTQQYK LFPLLATAYA FQFVGAYMKE
 TYHRINEGIG QGDLSELPEL HALTAGLKAF TSWTANTGIE ACRMAGGGHG
 YSHCSGLPNI YVNFTPSTCF EGENTVMMLQ TARFLMKSYD QVHSGKLVCG
 MVSYLNDLPS QRIQPQQVAV WPTMVDINSP ESLTEAYKLR AARLVEIAAK
 NLQKEVIHRK SKEVAWNLT VDLVRASEAH CHYVVVKLFS EKLLKIQDKA
 IQAVLRSLCL LYSLYGISQN AGDFLQGSIM TEPQITQVNQ RVKELLTLIR
 SDAVALVDAF DFQDVTLGSV LGRYDGNVYE NLF EWAKNSP LNKA EVHESY
 KHLKSLQSKL

Applications

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

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

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mRNA Refseq	NM_001185039
Protein Refseq	NP_001171968
MIM	609751
UniProt ID	Q15067

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