

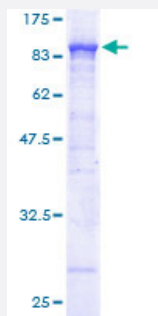
Full-Length

ACOX1 (Human) Recombinant Protein (P01)

Catalog # H00000051-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human ACOX1 full-length ORF (AAH10425, 1 a.a. - 660 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MNPDLRERDSASFNPPELLTHILDGSPEKTRRRREIENMILNDPDFQHEDLNFLTRSQRYEVAVRK
SAIMVKKMREFGIADPDEIMWFKNFVHRGRPEPLDLHLGMFLPTLLHQATAEQQERFFMPAWN
EIIGTYAQTEMGHGHRLRGLETIATYDPETQEFILNSPTVTSIKWWPGGLGKTSNHAVLAQLITGKC
YGLHAFVPIREIGTHKPLPGITVGDIGPKFGYDEIDNGYLKMDNHRIPRENMLMKYAQVKPDGTYVK
PLSNKLTYGTMVFVRSFLVGEAARALSKACTAIRYSAVRHQSEMKPGEPEPQILDFQTQQYKLF
LLATAYAFQFVGAYMKETYHRINEGIGQGDLSPELHALTAGLKAFTSWTANTGIEACRMACGGH
GYSHCSGLPNIYVNFTPSCTFEGENTVMMLQTARFLMKSVDQVHSGKLVCGMVSYLNDLPSQRIQ
PQQVAVWPTMVDINSPELSEAYKLRAARLVEIAAKNLQKEVIHRKSKEVAWNLTSDVLRASEA
HCHYVVVKLFSEKLLIQDKAIQAVLRSLCLLYSLYGISQNAGDFLQGSIMTEPQITQVNQVRKELLT
LIRSDAVALVDAFDFQDVTLGSVLGRYDGNVYENLFWEAKNSPLNKAHVHESYKHLKSLQSKL

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

98.34

Interspecies Antigen Sequence

Mouse (88); Rat (85)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

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

Gene Info — ACOX1

Entrez GeneID	51
GeneBank Accession#	BC010425
Protein Accession#	AAH10425
Gene Name	ACOX1
Gene Alias	ACOX, MGC1198, PALMCOX, SCOX
Gene Description	acyl-Coenzyme A oxidase 1, palmitoyl
Omim ID	264470 609751
Gene Ontology	Hyperlink
Gene Summary	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]
Other Designations	acyl-CoA oxidase, straight-chain peroxisomal fatty acyl-CoA oxidase

Pathway

- [alpha-Linolenic acid metabolism](#)
- [Biosynthesis of plant hormones](#)
- [Biosynthesis of unsaturated fatty acids](#)
- [Fatty acid metabolism](#)
- [Metabolic pathways](#)
- [PPAR signaling pathway](#)