

## Recombinant Human ACOX1 Protein, GST-Tagged

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

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human ACOX1 full-length ORF ( AAH10425, 1 a.a. - 660 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | 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] |
| <b>Molecular Mass</b>   | 98.34 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>AA Sequence</b>      | MNPDLRRERDSASFNPPELLTHILDGSPEKTRRRREIENMILNDPDFQHEDLNFLTRS<br>QRYEVAVRKSAIMVKKMREFGIADPDEIMWFKNFVHRGRPEPLDLHLGMFLPTLLH<br>QATAEQQERFFMPAWNLEIIGTYAQTEMGHGTHLRGLETIATYDPETQEFILNSPTVT<br>SIKWWPGGLGKTSNHAIVLAQLITKGKCYGLHAFIVPIREIGTHKPLPGITVGDIGPKF<br>GYDEIDNGYLKMDNHRIPRENMLMKYAQVKPDGTYVKPLSNKLTYGTMVFVRSFLV<br>GEAARALSKACTIAIRYSAVRHQSEMKGPEPEPQILDFQTQQYKLFPLLATAYAFQFV<br>GAYMKETYHRINEGIGQGDLSPELHALTAGLKAFTSWTANTGIEACRMACGGHG                                                                                                    |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

YSHCSGLPNIYVNFTPSCTFEGENTVMMLQTARFLMKSYDQVHSGKLVCGMVSYLN  
DLPSQRIQPQQVAVWPTMVDINSPESL TEAYKLRAARLVEIAAKNLQKEVIHRKSKEV  
AWNLTSDLVRASEAHCHYVVVKLFSEKLLKIQDKAIQAVLRSLCLLYSLYGISQNAG  
DFLQGSIMTEPQITQVNQRVKELLTLIRSDAVALVDAFDFQDVTLGSLVGRYDGNVY  
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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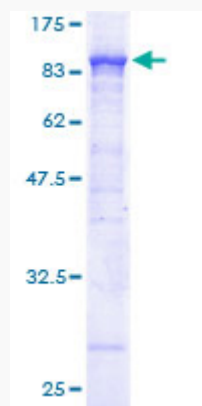
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**Protein Refseq** NP\_001171968

**MIM** 609751

**UniProt ID** Q15067



12.5% SDS-PAGE Stained with Coomassie Blue.

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