



# Recombinant Mouse Peroxisomal acyl-coenzyme A oxidase 1 (Acox1)

<b>Product Code</b>	CSB-EP882598MO-B
<b>Abbreviation</b>	Acox1
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q9R0H0
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Mus musculus (Mouse)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	MNPDLRKERA AATFNPELIT HILDGSPENT RRRREIENLI LNPDFQHED YNFLTRSQRY EVAVKKSATM VKKMREFGIA DPEEIMWFKK LHMVNFVEPV GLNYSMFIPT LLNQGTAAQQ EKWMHPSQEL QIIGTYAQTE MGHGTHLRGL ETTATYDPKT QEFILNSPTV TSIKWWPGGL GKTSNHAIVL AQLITRGECY GLHAFVVPPIR EIGTHKPLPG ITVGDIGPKF GYEEMDNGYL KMDNYRIPRE NMLMKYAQVK PDGTYVKPLS NKLTYGTMVF VRSFLVGSAA QSLSKACTIA IRYSAVRRQS EIKRSEPEPQ ILDFQTQQYK LFPLLATAYA FHFLGRYIKE TYMRINESIG QGDLSELPEL HALTAGLKAF TTWTANAGIE ECRMACGGHG YSHSSGIPNI YVTFTPACTF EGENTVMMLQ TARFLMKIYD QVQSGKLVGG MVSYLNDLPS QRIQPQQVAV WPTLVDINSL DSLTEAYKLR AARLVEIAAK NLQAQVSHRK SKEVAWNLTS VDLVRASEAH CHYVTVKVFA DKLPKIQDRA VQAVLRNLCL LYSLYGISQK GGDFFLEGNII TGAQMSQVNS RILELLTVTR PNAVALVDAF DFKDVTLGSV LGRYDGNVYE NLFEWAKKSP LNKTEVHESY YKHLKPLQSK L
<b>Source</b>	E.coli
<b>Target Names</b>	Acox1
<b>Protein Names</b>	Recommended name: Peroxisomal acyl-coenzyme A oxidase 1 Short name= AOX EC= 1.3.3.6 Alternative name(s): Palmitoyl-CoA oxidase
<b>Expression Region</b>	1-661
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	full length protein
<b>Target Details</b>	This protein 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.

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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

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