



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

<b>Product Code</b>	CSB-YP001172RA
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P07872
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	MNPDLRKERA SATFNPELIT HILDGSPENT RRRREIENLI LNDPDFQHED YNFLTRSQRY EVAVKKSATM VKKMREYGIS DPEEIMWFKK LYLANFVEPV GLNYSMFIPT LLNQGTAAQQ EKWMRPSQEL QIIGTYAQTE MGHGTHLRGL ETTATYDPKT QEFILNSPTV TSIKWWPGGL GKTSNHAIVL AQLITQGECY GLHAFVVPPIR EIGTHKPLPG ITVGDIGPKF GYEEMDNGYL KMDNYRIPRE NMLMKYAQVK PDGTYVKPLS NKLTYGTMVF VRSFLVGNAQ QLSKACTIA IRYSAVRRQS EIKQSEPEPQ ILDFQTQQYK LFPLLATAYA FHFVGRYMKE TYLRINESIG QGDLSELPEL HALTAGLKAF TTWTANAGIE ECRMCGGHG YSHSSGIPNI YVTFTPACTF EGENTVMMLQ TARFLMKIYD QVRSGKLVGG MVSYLNDLPS QRIQPQQVAV WPTMVDINSL EGLTEAYKLR AARLVEIAAK NLQTHVSHRK SKEVAWNLTS VDLVRASEAH CHYVVVKVFS DKLPKIQDKA VQAVLRNLCL LYSLYGISQK GGDFLEGSII TGAQLSQVNA RILELLTLIR PNAVALVDAF DFKDMTLGSV LGRYDGNVYE NLFEWAKKSP LNKTEVHESY HKHLKPLQSK L
<b>Source</b>	Yeast
<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 Cleaved into the following 3 chains: 1. Peroxisomal acyl-CoA oxidase 1, A chain 2. Peroxisomal acy
<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.



---

**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.

---

**Shelf Life**

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.