



# Recombinant Rat Peroxisomal acyl-coenzyme A oxidase 3 (Acox3)

|                          |  |
|--------------------------|--|
| <b>Product Code</b>      | CSB-YP726905RA   |
| <b>Abbreviation</b>      | Acox3  |
| <b>Storage</b>           | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.<br>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>       | Q63448   |
| <b>Product Type</b>      | Recombinant Protein  |
| <b>Immunogen Species</b> | Rattus norvegicus (Rat)  |
| <b>Purity</b>            | >85% (SDS-PAGE)  |
| <b>Sequence</b>          | GSSSERRDS VLWSDIPKGP LSAYRARASF NSKELMLFWD GQDVLDKFKT<br>IFSTLENDPL FARPFADLP LEKERELNFL RCKRVFEYGF FNAEDMLKNP<br>LKILVLMNCL GMYDWSLANK CVLHMLVFGS TIIGSGSEHH FKYLEKIYNL<br>EIFGCFALTE LSHGSNTKAM RTTAHYDPAT QEFILHSPDF EAAKFWVGNL<br>GKTATHAVVF AQLYTPDGQC RGLHSFLVQI RDPKTL LPMP GVMVGD MGKK<br>LGQNGLDNGF AMFHKVRIPR QNLLDRTGNV TSEGHYHTPF KDVRQRLGAS<br>LGSLSGRIS IISISVNLK LAVIIAIRFS ATRRQFGPTD KEEIPVLEYP<br>LQQWRLPYL AAAYALDHSF KTIFLDLIEL QRAGKVGTTV TGRQSSGREI<br>HALASAGKPL ASWTAQRGIQ ECREVVGHHG YLAMNRFGEL RNDNDPNCTY<br>EGDNNVLLQQ TSNYLLSLE HPLQDGAHFT SPLKTVNFLE AYPGILGQKF<br>MASSKADWLD SEAPLAAYRW LVCYLLRESH QRYCQEKKS<br>GSDFEARNNS QVYGCRPLAL AFMELTVMQR FHEHTHSSSV PPSLRTVLGR<br>LSMLYGLWCL SQHTALLYRG GYISGEQTGK AMEDAILMLC VQLKDDAVAL<br>VDAIAPSDFV LGSPIGRADG ELYKNLWAAV LQQSGVLERA AWWPEFTANK<br>SVANRLKSQL |
| <b>Source</b>            | Yeast  |
| <b>Target Names</b>      | Acox3  |
| <b>Protein Names</b>     | Recommended name: Peroxisomal acyl-coenzyme A oxidase 3 EC= 1.3.3.6<br>Alternative name(s): Branched-chain acyl-CoA oxidase Short name= BRCACox<br>Pristanoyl-CoA oxidase  |
| <b>Expression Region</b> | 2-700  |
| <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 of Mature Protein  |
| <b>Target Details</b>    | Acyl-Coenzyme A oxidase 3 also know as pristanoyl -CoA oxidase (ACOX3)is involved in the desaturation of 2-methyl branched fatty acids in peroxisomes.   |



Unlike the rat homolog, the human gene is expressed in very low amounts in liver such that its mRNA was undetectable by routine Northern-blot analysis or its product by immunoblotting or by enzyme activity measurements. However the human cDNA encoding a 700 amino acid protein with a peroxisomal targeting C-terminal tripeptide S-K-L was isolated and is thought to be expressed under special conditions such as specific developmental stages or in a tissue specific manner in tissues that have not yet been examined.

---

**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.