



# Recombinant Mouse Peroxisomal bifunctional enzyme (Ehhadh)

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| <b>Product Code</b>      | CSB-EP866744MO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Abbreviation</b>      | Ehhadh                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <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>       | Q9DBM2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Product Type</b>      | Recombinant Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Immunogen Species</b> | Mus musculus (Mouse)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Purity</b>            | ≥85% (SDS-PAGE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Sequence</b>          | MAEYLRLPHS LAMIRLCNPP VNAISPTVIT EVRNLQKAS LDHTVRAIVI<br>CGANDNFCAG ADIHGFKSPT GLTLGSLVDE IQRYQKPVVA AIQGVALGGG<br>LELALGCHYR IANAKARVGF PEVMLGILPG ARGQQLPRV VGVPVALDLI<br>TSGRHISTDE ALKLGILDVV VKSDPVEEAI KFAQTVIGKP IEPRLILNKP<br>VPSLPNMDSV FAEIAKVRK QYPGRLAPET CVRSVQASVK HPYEVAIKEE<br>AKLFMYLRGS GQARALQYAF FAEKSANKWS TPSGASWKTA SAQPVSSVGV<br>LGLGTMGRGI AISFARVGIP VVAVESDPKQ LDTAKKIITS TLEKEASKSG<br>QASAKPNLRF SSSTKELSSV DLVIEAVFED MNLKKKVFAE LSALCKPGAF<br>LCTNTSALDV DDIASSTDRP QLVIGTHFFS PAHIMRLLEV IPSRYSSPTT<br>IATVMSLSKR IGKIGVVVGN CYGFVGNRML APYYNQGYFL IEEGSKPEDV<br>DGVLEEFGR MGPFRVSDLA GLDVGWVKVRK GQGLTGPSLP<br>PGTPTRKRGV TRYSPIDML CEAGRFGQKT GKGWYQYDKP LGRIHKPDW<br>LSEFLSQYRE THHIKQRSIS KEEILERCLY SLINEAFRIL EEGMAASPEH<br>IDVIYHGYG WPRHVGGPMY YAASVGLPTV LEKLQKYRQ NPDIPQLEPS<br>DYLRLVAQG SPPLKEWQSL AGPHSSKL |
| <b>Source</b>            | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Target Names</b>      | Ehhadh                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Protein Names</b>     | Recommended name: Peroxisomal bifunctional enzyme Short name= PBE<br>Short name= PBE Including the following 2 domains: Enoyl-CoA<br>hydratase/3,2-trans-enoyl-CoA isomerase EC= 4.2.1.17 EC= 5.3.3.8 3-<br>hydroxyacyl-CoA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Expression Region</b> | 1-718                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <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 a bifunctional enzyme and is one of the four enzymes of the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |



peroxisomal beta-oxidation pathway. The N-terminal region of the encoded protein contains enoyl-CoA hydratase activity while the C-terminal region contains 3-hydroxyacyl-CoA dehydrogenase activity. Defects in this gene are a cause of peroxisomal disorders such as Zellweger syndrome. Two transcript variants encoding different isoforms have been found for this gene.

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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**

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.