



# Recombinant Human Gamma-butyrobetaine dioxygenase (BBOX1)

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|--------------------------|--|
| <b>Product Code</b>      | CSB-YP530450HU   |
| <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>       | O75936   |
| <b>Product Type</b>      | Recombinant Protein  |
| <b>Immunogen Species</b> | Homo sapiens (Human)   |
| <b>Purity</b>            | >85% (SDS-PAGE)  |
| <b>Sequence</b>          | MACTIQKAEA LDGAHLMQIL WYDEEESLYP AVWLRDNCPC SDCYLDSAKA<br>RKLLVEALDV NIGIKGLIFD RKKVYITWPD EHYSEFQADW LKKRCFSKQA<br>RAKLQRELF PECCQYWGSEL QLPTLDFEDV LRYDEHAYKW LSTLKKVGIV<br>RLTGASDKPG EVSKLGKRMG FLYLTFYGHY WQVQDKIDAN NVAYTTGKLS<br>FHTDYPALHH PPGVQLLHCI KQTVTGGDSE IVDGFNVCQK LKKNNPQAFQ<br>ILSSTFVDFT DIGVDYCDFS VQSKHKIIEI DDKGQVVRIN FNNATRDITF<br>DVPVERVQPF YAALKEFVDL MNSKESKFTF KMNPGDVITF DNWRLLHGRR<br>SYEAGTEISR HLEGAYADWD VVMSRLRILR QRVENGN |
| <b>Source</b>            | Yeast  |
| <b>Target Names</b>      | BBOX1  |
| <b>Protein Names</b>     | Recommended name: Gamma-butyrobetaine dioxygenase EC= 1.14.11.1<br>Alternative name(s): Gamma-butyrobetaine hydroxylase Short name= Gamma-BBH Gamma-butyrobetaine,2-oxoglutarate dioxygenase   |
| <b>Expression Region</b> | 1-387  |
| <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 gene encodes gamma butyrobetaine hydroxylase which catalyzes the formation of L-carnitine from gamma-butyrobetaine, the last step in the L-carnitine biosynthetic pathway. Carnitine is essential for the transport of activated fatty acids across the mitochondrial membrane during mitochondrial beta-oxidation.   |
| <b>Reconstitution</b>    | 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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