



# Recombinant Human Gamma-butyrobetaine dioxygenase (BBOX1)

<b>Product Code</b>	CSB-MP530450HU
<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>	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 RKLLVEALDV NIGIKGLIFD RKKVYITWPD EHYSEFQADW LKKRCFSKQA RAKLQRELF PECCQYWGSEL QLPTLDFEDV LRYDEHAYKW LSTLKKVGIV RLTGASDKPG EVSKLGKRMG FLYLTFYGHY WQVQDKIDAN NVAYTTGKLS FHTDYPALHH PPGVQLLHCI KQTVTGGDSE IVDGFNVCQK LKKNNPQAFQ ILSSTFVDFT DIGVDYCDFS VQSKHKIIEL DDKGQVVRIN FNNATRDITF DVPVERVQPF YAALKEFVDL MNSKESKFTF KMNPGDVITF DNWRLLHGRR SYEAGTEISR HLEGAYADWD VVMSRLRILR QRVENGN
<b>Source</b>	Mammalian cell
<b>Target Names</b>	BBOX1
<b>Protein Names</b>	Recommended name: Gamma-butyrobetaine dioxygenase EC= 1.14.11.1 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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