



Recombinant Human Gamma-butyrobetaine dioxygenase (BBOX1)

Product Code	CSB-EP530450HU-B
Storage	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.
Uniprot No.	O75936
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	MACTIQKAEA LDGAHLMQIL WYDEEESLYP AVWLRDNCPC SDCYLDSAKA RKLLVEALDV NIGIKGLIFD RKKVYITWPD EHYSEFQADW LKKRCFSKQA RAKLQRELF PECQYWGSEL QLPTLDFEDV LRYDEHAYKW LSTLKKVGIV RLTGASDKPG EVSKLGKRMG FLYLTFYGHT WQVQDKIDAN NVAYTTGKLS FHTDYPALHH PPGVQLLHCI KQTVTGGDSE IVDGFNVCQK LKKNNPQAFQ ILSSTFVDFT DIGVDYCDFS VQSKHKIIEI DDKGQVVRIN FNNATRDITF DVPVERVQPF YAALKEFVDL MNSKESKFTF KMNPGDVITF DNWRLLHGRR SYEAGTEISR HLEGAYADWD VVMSRLRILR QRVENGN
Source	E.coli
Target Names	BBOX1
Protein Names	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
Expression Region	1-387
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	full length protein
Target Details	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.
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

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