Gamma-Butyrobetaine Dioxygenase (BBOX1) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Gamma-butyrobetaine dioxygenase (Bbox1), Recombinant Protein
Full Product Name	Recombinant Mouse Gamma-butyrobetaine dioxygenase (Bbox1)
Product Gene Name	Bbox1 recombinant protein
Product Synonym Gene Name	Bbox1
Sequence	MHCAILKAEA VDGAHLMQIF WHDGAESLYP AVWLRDNCQC SDCYLHSAKA RKLLLEALDV NIRIDDLTFD RKKVYITWPN DHYSEFEANW LKKRCFSQQA RARLQGELFL PECQYWGSEL QLPTLNFEDV LNDDDHAYKW LSSLKKVGIV RLTGAADKRG EIIKLGKRIG FLYLTFYGHT WQVQDKIDAN NVAYTTGKLS FHTDYPALHH PPGVQLLHCI KQTVTGGDSE IVDGFNVCQK LKEKNPQAFH ILSSTFVDFT DIGVDYCDFS VQSKHKIIEL DDKGQVVRVN FNNATRDTVF DVPIERVQPF YAALKEFVDL MNSKEYKYTF KMNPGDVITF DNWRLLHGRR SYEAGTEISR HLEGAYADWD VVMSRLRILR QRVTNGN
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	44,699 Da
Sequence Positions	1-387, full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q924Y0
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Bbox1 recombinant protein	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.
Other Notes	Small volumes of Bbox1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Bbox1 purchase	MBS1385943 is a recombinant protein targeting Bbox1. Also known as Recombinant Mouse Gamma-butyrobetaine dioxygenase (Bbox1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Bbox1. It may not necessarily be applicable to this product.

NCBI GI #	18485502
NCBI GeneID	170442

NCBI Accession #	NP_569719.1
UniProt Primary Accession #	Q924Y0
UniProt Related Accession #	Q924Y0
GenBank Nucleotide #	NM_130452.1
NCBI Official Full Name	gamma-butyrobetaine dioxygenase
NCBI Official Synonym Full Names	butyrobetaine (gamma), 2-oxoglutarate dioxygenase 1 (gamma-butyrobetaine hydroxylase)
NCBI Official Symbol	Bbox1
NCBI Official Synonym Symbols	AI874739
UniProt Protein Name	Gamma-butyrobetaine dioxygenase
UniProt Synonym Protein Names	Gamma-butyrobetaine hydroxylase; Gamma-BBH; Gamma-butyrobetaine,2-oxoglutarate dioxygenase
Protein Family	Gamma-butyrobetaine dioxygenase
UniProt Gene Name	Bbox1
UniProt Synonym Gene Names	Gamma-BBH
NCBI Protein Information	gamma-butyrobetaine dioxygenase
UniProt Comments for Bbox1	Catalyzes the formation of L-carnitine from gamma-butyrobetaine.
Research Articles on Bbox1	**1.** study clearly shows that mouse gamma-butyrobetaine dioxygenase is a direct PPARalpha target gene
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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