Gamma-Butyrobetaine Dioxygenase (BBOX1) Rat Recombinant Protein

PRODUCT OVERVIEW

Product Name	Gamma-butyrobetaine dioxygenase (Bbox1), Recombinant Protein
Full Product Name	Recombinant Rat Gamma-butyrobetaine dioxygenase (Bbox1)
Product Gene Name	Bbox1 recombinant protein
Product Synonym Gene Name	Bbox1
Sequence	MHCAILKAEA VDGARLMQIF WHDGAESLYP AVWLRDNCQC SDCYLHSAKA RKLLLEALDV NIRMDDLTFD QKKVYITWPN GHYSEFEANW LKKRCFSQEA RAGLQGELFL PECQYWGSEL QLPTLNFEDV LNDDDHAYKW LSSLKKVGIV RLTGAADKRG EIIKLGKRIG FLYLTFYGHT WQVQDKIDAN NVAYTTGKLS FHTDYPALHH PPGVQLLHCI KQTVTGGDSE IVDGFNVCQK LKEKNPQAFS ILSSTFVDFT DIGVDYCDFS VQSKHKIIEL DDKGQVVRIN FNNATRDTVF DVPIERVQPF YAALKEFVDL MNSKEYKYTF KMNPGDVITF DNWRLLHGRR SYEAGTEISR HLEGAYADWD VVMSRLRILR QRVMNGN
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	44,546 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 Q9QZU7
Species	Rat
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	MBS1322857 is a recombinant protein targeting Bbox1. Also known as Recombinant Rat 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 #	12018320
NCBI GeneID	64564

NCBI Accession #	NP_072151.1
UniProt Primary Accession #	Q9QZU7
UniProt Related Accession #	Q9QZU7
GenBank Nucleotide #	NM_022629.1
NCBI Official Full Name	gamma-butyrobetaine dioxygenase
NCBI Official Synonym Full Names	gamma-butyrobetaine hydroxylase 1
NCBI Official Symbol	Bbox1
NCBI Official Synonym Symbols	Bbh; Bbox
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	Bbh; 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.** Data suggest that expression of BBH mRNA and protein is up-regulated in liver with training in physical activity; in kidney, only BBH mRNA expression is up-regulated.
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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