

Recombinant Human BBOX1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. BBOX1-6335H Lot. No. (See product label)

SPECIFICATION

Product Overview

BBOX1 MS Standard C13 and N15-labeled recombinant protein (NP_003977) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

Species

Human

Source

HEK293

Description

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.

Molecular Mass

44.7 kDa

AA Sequence

MACTIQKAEALDGAHLMQILWYDEEESLYPAVWLRDNCPCSDCYLDSAKARKLLVE
 ALDVNIGIKGLIFDRKKVYITWPDEHYSEFQADWLKKRCFSKQARAKLQRELFPEEC
 QYWGSELQLPTLDFEDVLRIDEHAYKWLSTLKKVGIVRLTGASDKPGEVSKLGKRM
 GFLYLTFYGHTWQVQDKIDANNVAYTTGKLSFHTDYPALHHPGQVLLHCIKQTVTGTG
 GDSEIVDGFNVCQKLKNNPQAFQILSSTFVDFTDIGVDYCDFSVQSKHKIIELDKDG
 QVVRINFNNATRDITFDVPPERVQPFYAALKEFVDMNSKESKFTFKMNPQDVTITFD
 NWRLHGRRSYEAGTEISRHLEGAYADWDVMSRLRILRQRVENGNTTRTRPLEQKL
 ISEEDLAANDILDYKDDDDKV

Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining

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Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.
GENE INFORMATION	
Gene Name	BBOX1 gamma-butyrobetaine hydroxylase 1 [Homo sapiens (human)]
Official Symbol	BBOX1
Synonyms	BBOX1; butyrobetaine (gamma), 2-oxoglutarate dioxygenase (gamma-butyrobetaine hydroxylase) 1; BBOX; gamma-butyrobetaine dioxygenase; BBH; G BBH; gamma BBH; gamma-butyrobetaine hydroxylase; gamma-butyrobetaine,2-oxoglutarate dioxygenase 1; G-BBH; gamma-BBH;
Gene ID	8424
mRNA Refseq	NM_003986
Protein Refseq	NP_003977
MIM	603312
UniProt ID	O75936

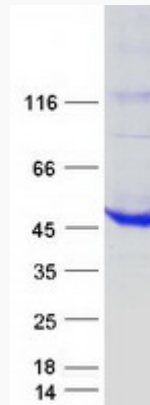
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SDS-PAGE



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