

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 QYWGSELQLPTLDFEDVLRIDEHAYKWSTLKKVGIVRLTGASDKPGEVSKLGKRM GFLYLTFYGHTWQVQDKIDANNVAYTTGKLSFHTDYPALHHPPGVQLLHCIKQTVTG GDSEIVDGFNVCQKLKKNNPQAFQILSSTFVDFTDIGVDYCDFSVQSKHKIIELEDDKG QVVRINFNNATRTDIFDVPVERVQPFYAALKEFVDMNSKESKFTFKMNPBGDVITFD NWRLHGRRSYEAGTEISRHLLEGAYADWDVMSRLRILRQRVENGNTTRTRPLEQKL 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.

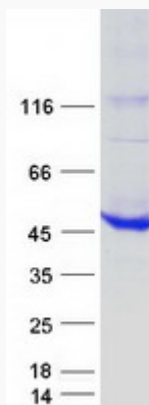
GENE INFORMATION

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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