

Recombinant Human BBOX1, His-tagged

Cat. No. BBOX1-26648TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 100-387 of Human BBOX1 with N terminal His tag; 288 amino acids, 34kDa.
Species	Human
Source	E.coli
ProteinLength	100-387 a.a.
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.
Conjugation	HIS
Form	Lyophilised:Reconstitute with 92 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	ARAKLQRELFFPECQYWGSELQLPTLDFEDVRLRYDEHAYK WLSTLKKVGIVRLTGA SDKPGEVSKLGKRMGFLYLTFY GHTWQVQDKIDANNVAYTTGKLSFHTDYPALHH

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

PPGVQLL HCIKQTVTGGDSEIVDGFNVCQKLKNNPQAFQILSST FVDFTDIGVDYC
 DFSVQSKHKIIELDDKGQVVRINFNN ATRDTIFDVPVERVQPFYAALKEFVDLMNSK
 ESKFTFKMN PGDVITFDNWRLHGRRSYEAGTEISRHLEGAYADWDV VMSRLRILR
 QRVENG

GENE INFORMATION

Gene Name	BBOX1 butyrobetaine (gamma), 2-oxoglutarate dioxygenase (gamma-butyrobetaine hydroxylase) 1 [Homo sapiens]
Official Symbol	BBOX1
Synonyms	BBOX1; butyrobetaine (gamma), 2-oxoglutarate dioxygenase (gamma-butyrobetaine hydroxylase) 1; BBOX; gamma-butyrobetaine dioxygenase; BBH; G BBH; gamma BBH;
Gene ID	8424
mRNA Refseq	NM_003986
Protein Refseq	NP_003977
MIM	603312
Uniprot ID	O75936
Chromosome Location	11p
Pathway	Carnitine synthesis, organism-specific biosystem; Lysine degradation, organism-specific biosystem; Lysine degradation, conserved biosystem; Metabolism, organism-

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	specific biosystem; Metabolism of amino acids and derivatives, organism-specific biosystem;
Function	gamma-butyrobetaine dioxygenase activity; gamma-butyrobetaine dioxygenase activity; gamma-butyrobetaine dioxygenase activity; iron ion binding; metal ion binding;