

Recombinant Human BBOX1, His-tagged

Cat. No. BBOX1-10149H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human BBOX1 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-387a.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.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 300mM Imidazole and 0.7% Sarcosyl, 15%glycerol.

GENE INFORMATION

Gene Name	BBOX1 butyrobetaine (gamma), 2-oxoglutarate dioxygenase (gamma-butyrobetaine hydroxylase) 1 [Homo sapiens]
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 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

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
Chromosome Location	11p
Pathway	Carnitine synthesis, organism-specific biosystem; L-carnitine biosynthesis, organism-specific biosystem; Lysine degradation, organism-specific biosystem; Lysine degradation, conserved biosystem; Metabolism, organism-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; oxidoreductase activity; oxidoreductase activity, acting on single donors with incorporation