

Recombinant Human BCKDK, GST-tagged

Cat. No. BCKDK-111H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human BCKDK (30-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	30-end a.a.
Description	BCKDK or branched chain alpha-keto acid dehydrogenase kinase is an important regulator of the valine, leucine, and isoleucine catabolic pathways. BCKDK is found in the mitochondrion where it phosphorylates and inactivates BCKD. The branched-chain alpha-keto dehydrogenase complex (BCKDH) catalyzes the rate-limiting step in the oxidation of branched-chain amino acids and BCKDK inactivates the BCKDH complex by catalyzing serine phosphorylation of the E1-alpha subunit. BCKDH kinase catalyzes the serine phosphorylation of the E1- alpha subunit of BCKDH.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Molecular Mass	~69 kDa
Purity	>95% by densitometry
Applications	Western Blot

 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

Storage	Store product at –70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
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Concentration	0.1 µg/µl
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GENE INFORMATION

Gene Name	BCKDK branched chain ketoacid dehydrogenase kinase [Homo sapiens]
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Official Symbol	BCKDK
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Synonyms	BCKDK; branched chain ketoacid dehydrogenase kinase; [3-methyl-2-oxobutanoate dehydrogenase [lipoamide]] kinase, mitochondrial; BCKDHKIN; BCKD-kinase; branched chain alpha-ketoacid dehydrogenase kinase; branched-chain alpha-ketoacid dehydrogenase kinase;
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Gene ID	10295
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mRNA Refseq	NM_001122957
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Protein Refseq	NP_001116429
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UniProt ID	O14874
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Chromosome Location	16p11.2
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Function	ATP binding; ATP binding; [3-methyl-2-oxobutanoate dehydrogenase (acetyl-transferring)] kinase activity; kinase activity; kinase activity; nucleotide binding; protein binding; protein serine/threonine kinase activity; two-component sensor activity;
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