

BCKDK recombinant protein

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CATALOG # AAA72935	HOST Sf9 insect cells	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

BCKDK; BCKDK recombinant protein; BCKDKD; BDK

PRODUCT SPECIFICATIONS

Host	Sf9 insect cells
Purity/Purification	>95%
Form/Format	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Concentration	0.1ug/ul (varies by lot)
Sequence Length	2144
Applicable Applications for BCKDK recombinant protein	WB (Western Blot)
Type	Recombinant Fusion Protein
Species	Human
Tag Information	GST tag
Expression System	Sf9 insect cells using baculovirus
Source Note	Recombinant human BCKDK (30-end) was expressed by baculovirus in Sf9 insect cells
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Stability: 1 yr at -70 degree C from date shipment Storage & Shipping: Store product at -70 degree C. 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.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for BCKDK recombinant protein	Recombinant human BCKDK (30-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. Scientific Background: 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 (1). BCKDH kinase catalyzes the serine phosphorylation of the E1- alpha subunit of BCKDH (2).
Product Categories/Family for BCKDK recombinant protein	Cellular Proteins; Signaling Proteins - Cellular Proteins
References	1. Joshi, M. A. et.al: growth and neurological abnormalities in branched-chain alpha-keto acid dehydrogenase kinase-deficient mice. Biochem. J. 400: 153-162, 2006. 2. Popov, K. M. et.al: A. Branched-chain alpha-ketoacid dehydrogenase kinase: molecular cloning, expression, and sequence similarity with histidine protein kinases. J. Biol. Chem. 267: 13127-13130, 1992.

NCBI AND UNIPROT INFORMATION

NCBI GI #	429484475
NCBI GeneID	10295
NCBI Accession #	NP_005872.2
NCBI GenBank Nucleotide #	NM_005881
UniProt Accession #	O14874; Q6FGL4; Q96IN5
Molecular Weight	69 kDa
NCBI Official Full Name	Homo sapiens branched chain ketoacid dehydrogenase kinase (BCKDK), transcript variant 1, mRNA
NCBI Official Synonym Full Names	branched chain ketoacid dehydrogenase kinase
NCBI Official Symbol	BCKDK
NCBI Official Synonym Symbols	BDK; BCKDKD
NCBI Protein Information	[3-methyl-2-oxobutanoate dehydrogenase [lipoamide]] kinase, mitochondrial; [3-methyl-2-oxobutanoate dehydrogenase [lipoamide]] kinase, mitochondrial; BCKDHKIN; BCKD-kinase; branched chain alpha-ketoacid dehydrogenase kinase
UniProt Protein Name	[3-methyl-2-oxobutanoate dehydrogenase [lipoamide]] kinase, mitochondrial
UniProt Gene Name	BCKDK
UniProt Synonym Gene Names	BCKD-kinase; BCKDHKIN
UniProt Entry Name	BCKD_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.