

Recombinant Human BCKDK, GST-tagged

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

SPECIFICATION

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|-------------------------|--|
| 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 |

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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.

Concentration 0.1 µg/µl

GENE INFORMATION

Gene Name [BCKDK branched chain ketoacid dehydrogenase kinase \[Homo sapiens \]](#)

Official Symbol BCKDK

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;

Gene ID [10295](#)

mRNA Refseq [NM_001122957](#)

Protein Refseq [NP_001116429](#)

UniProt ID [O14874](#)

Chromosome Location 16p11.2

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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