

Recombinant Human BCKDK, His-tagged

Cat. No. BCKDK-27438TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 39-412 of Human BCKDH kinase with an N terminal His tag; Predicted MWt 44 kDa.
Species	Human
Source	E.coli
ProteinLength	39-412 a.a.
Description	Catalyzes the phosphorylation and inactivation of the branched-chain alpha-ketoacid dehydrogenase complex, the key regulatory enzyme of the valine, leucine and isoleucine catabolic pathways. Key enzyme that regulate the activity state of the BCKD complex.
Conjugation	HIS
Tissue specificity	Ubiquitous.
Form	Lyophilised: Reconstitute with 109 µl aqua dest.
Storage buffer	Preservative: None Constituents: 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.

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Sequences of amino acids

HVEMARERSKTVTSFYNQSAIDAAAEKPSVRLTPTMMLYA GRSQDGSHLLKSARYL
 QQELPVRIAHRKIGFRCLPFII GCNPTILHVELYIRAFQKLTDFPPIKDQADEAQYCC
 L VRQLDDHKDVVTLAEGLRERKHIEDEKLVRYFLDK TLTSRLGIRMLATHHLAL
 HEDKPDFVGIICTRLSPKKIIE KWVDFARRLCEHKYGNAPRVRINGHVAARFPFIPMP
 LD YILPELLKNAMRATMESHLDTPYNVPDVVITIANNDVD LIIRISDRGGGIAHKDLDR
 VMDYHFTTAEASTQDPRIS PLFGHLDMHSGAQSGPMHGFGLPTSRAYAEYLG
 SLQL QSLQGIGTDVYLRLRHIDGREESFRI

Sequence Similarities

Belongs to the PDK/BCKDK protein kinase family. Contains 1 histidine kinase domain.

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;

Gene ID [10295](#)

mRNA Refseq [NM_005881](#)

Protein Refseq [NP_005872](#)

Uniprot ID [O14874](#)

Chromosome Location 16p11.2

Function ATP binding; ATP binding; [3-methyl-2-oxobutanoate dehydrogenase (acetyl-

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transferring)] kinase activity; kinase activity; kinase activity;

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