

Recombinant Human CHUK, His-tagged

Cat. No. CHUK-675H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human full length CHUK, His-tagged was expressed in <i>insect cells</i> . MW = 88.7 kDa.
Species	Human
Source	Insect Cells
Description	Inhibitor of nuclear factor kappa-B kinase subunit alpha (IKK- α) also known as conserved helix-loop-helix ubiquitous kinase (CHUK) is a protein kinase that in humans is encoded by the CHUK gene. IKK- α is part of the I κ B kinase complex that plays an important role in mediating the inflammatory response. In addition, IKK- α functions independently of the I κ B kinase complex to regulate epidermal differentiation.
Formulation	Liquid in 50 mM Tris, pH 7.5 + 150 mM NaCl + 0.5 mM EDTA + 0.02% Triton X-100 + 2mM DTT + 50% glycerol.
Specific Activity	38 nmole of phosphate transferred to myelin basic protein (MBP) per minute per mg of total protein at 30°C. Activity determined at a final protein concentration of 8.33 g/ml.
Storage & Stability	Stable for 6 months in working aliquots at -80°C. Avoid repeated freeze-thaw cycles.
Full Length	Full L.

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GENE INFORMATION

Gene Name [CHUK conserved helix-loop-helix ubiquitous kinase \[Homo sapiens \]](#)

Synonyms

conserved helix-loop-helix ubiquitous kinase; IKK1; IKKA; IKBKA; TCF16; NFKB1KA; IKK-alpha; CHUK; inhibitor of nuclear factor kappa-B kinase subunit alpha; TCF-16; IKK-a kinase; ikappaB kinase; I-kappa-B kinase 1; I-kappa-B kinase alpha; I-kappa-B kinase-alpha; transcription factor 16; Ikb kinase alpha subunit; conserved helix-loop ubiquitous kinase; Nuclear factor NFkappaB inhibitor kinase alpha; nuclear factor NF-kappa-B inhibitor kinase alpha; Nuclear factor NF-kappa-B inhibitor kinase alpha; Transcription factor 16; IkappaB kinase; IKK-A; EC 2.7.11.10

Gene ID [1147](#)

mRNA Refseq [NM_001278](#)

Protein Refseq [NP_001269](#)

MIM [600664](#)

UniProt ID [O15111](#)

Chromosome Location 10q24-q25

Pathway

Acute myeloid leukemia; Adipocytokine signaling pathway; Apoptosis; B cell receptor signaling pathway; Chagas disease; Chemokine signaling pathway; Chronic myeloid leukemia; Cytosolic DNA-sensing pathway; Epithelial cell signaling in Helicobacter pylori infection; MAPK signaling pathway; NOD-like receptor signaling pathway; Pancreatic cancer; Pathways in cancer; Prostate cancer; RIG-I-like receptor signaling pathway; Shigellosis; Small cell lung cancer; T cell receptor signaling pathway; Toll-

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like receptor signaling pathway; Signaling in Immune system

Function

ATP binding; IkappaB kinase activity; identical protein binding; nucleotide binding; protein binding; protein heterodimerization activity; transferase activity

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