

# Recombinant Human CHUK, His-tagged

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

## SPECIFICATION

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

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## GENE INFORMATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | CHUK conserved helix-loop-helix ubiquitous kinase [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Synonyms</b>            | 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 |
| <b>Gene ID</b>             | 1147                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>mRNA Refseq</b>         | NM_001278                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Protein Refseq</b>      | NP_001269                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>MIM</b>                 | 600664                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>UniProt ID</b>          | O15111                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Chromosome Location</b> | 10q24-q25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Pathway</b>             | 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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