

Recombinant Human Hemopoietic Cell Kinase, His-tagged

Cat. No. HCK-1235H **Lot. No.** (See product label)

SPECIFICATION

| | |
|--------------------------|---|
| Product Overview | Recombinant human full length HCK with C-terminal His tag. No special measures were taken to activate this kinase. |
| Species | Human |
| Source | Insect Cells |
| Description | The protein encoded by this gene is a HCK that is predominantly expressed in hemopoietic cell types, and belongs to the Src family of tyrosine kinases. The encoded protein may help couple the Fc receptor to the activation of the respiratory burst. In addition, it may play a role in neutrophil migration and in the degranulation of neutrophils. Alternate translation initiation site usage, including a non-AUG (CUG) codon, results in the production of two different isoforms, that have different subcellular localization. |
| Form | Liquid in 50 mM Tris, pH 7.5 + 0.05 mM EDTA + 1 mM DTT + 100 mM NaCl + 0.05% NP-40 + 50% glycerol. |
| Molecular Weight | 58.7 kDa |
| Specific Activity | 1450 nmole of phosphate transferred to poly [Glu,Tyr] 4:1 substrate per minute per mg of total protein at 30°C. Activity determined at a final protein concentration of 2 µg/ml. |
| Storage | Stable for 6 months in working aliquots at -80°C. Avoid repeated freeze-thaw cycles. |

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| | |
|----------------------------|---|
| OfficialSymbol | HCK |
| Full Length | Full L. |
| GENE INFORMATION | |
| Gene Name | HCK hemopoietic cell kinase [Homosapiens] |
| Synonyms | HCK; hemopoietic cell kinase;JTK9; Tyrosine-protein kinase HCK; EC2.7.10.2; Hemopoietic cell kinase; p59-HCK/p60-HCK |
| Gene ID | 3055 |
| mRNA Refseq | NM_002110 |
| Protein Refseq | NP_002101 |
| MIM | 142370 |
| UniProt ID | P08631 |
| Chromosome Location | 20q11-q12 |
| Pathway | Alpha-synuclein signaling; B Cell ReceptorSignaling Pathway; CXCR4-mediated signaling events; Chemokine signalingpathway; Class I PI3K signaling events; Cytokine Signaling in Immune system; EPHAforward signaling; Ephrin B reverse signaling; Fc gamma R-mediatedphagocytosis; Focal Adhesion; Glypican 1 network; HIV Infection; IL-3Signaling Pathway; IL-5 Signaling Pathway; Immune System |
| Function | ATP binding; non-membranespanning protein tyrosine kinase activity; nucleotide |

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binding; proteinbinding; transferase activity

**PDBrendering based
on 1ad5.**

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