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Recombinant Human Tyrosine-protein kinase HCK Protein

Catalog No.: RP03543LQ Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	3055	P08631

Tags
No tag

Synonyms
Tyrosine-protein kinase HCK;HCK

Product Information

Source	Purification
insect cell-baculovirus	≥ 95 % as determined by SDS-PAGE.

Calculated MW	Observed MW
51.1 KDa	52 KDa

Endotoxin
Please contact us for more information.

Formulation
Supplied as sterile 50 mM Tris-HCl (pH 7.5), 1 mM DTT, 200 mM NaCl, 10% glycerol.

Reconstitution
Please use running water to thaw it quickly.

Background

Non-receptor tyrosine-protein kinase found in hematopoietic cells that transmits signals from cell surface receptors and plays an important role in the regulation of innate immune responses, including neutrophil, monocyte, macrophage and mast cell functions, phagocytosis, cell survival and proliferation, cell adhesion and migration. Acts downstream of receptors that bind the Fc region of immunoglobulins, such as FCGR1A and FCGR2A, but also CSF3R, PLAUR, the receptors for IFNG, IL2, IL6 and IL8, and integrins, such as ITGB1 and ITGB2. During the phagocytic process, mediates mobilization of secretory lysosomes, degranulation, and activation of NADPH oxidase to bring about the respiratory burst. Plays a role in the release of inflammatory molecules. Promotes reorganization of the actin cytoskeleton and actin polymerization, formation of podosomes and cell protrusions. Inhibits TP73-mediated transcription activation and TP73-mediated apoptosis. Phosphorylates CBL in response to activation of immunoglobulin gamma Fc region receptors. Phosphorylates ADAM15, BCR, ELMO1, FCGR2A, GAB1, GAB2, RAPGEF1, STAT5B, TP73, VAV1 and WAS.

Basic Information

Description
Recombinant Human Tyrosine-protein kinase HCK Protein is produced by insect cell-baculovirus expression system. The target protein is expressed with sequence (Ile81-Pro526, Q523E, Q524E, Q525I) of human Tyrosine-protein kinase HCK (Accession #NP_002101.2).

Bio-Activity
The activity of HCK is based on the MSA technology, and the content and ratio of the substrate and the product are directly separated and detected in real time and dynamically by the different migration rates of the substrate and the product after the enzymatic reaction.

Storage
Store at -70℃.This product is stable at ≤ -70°C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature. Avoid repeated freeze-thaw cycles.
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Contact

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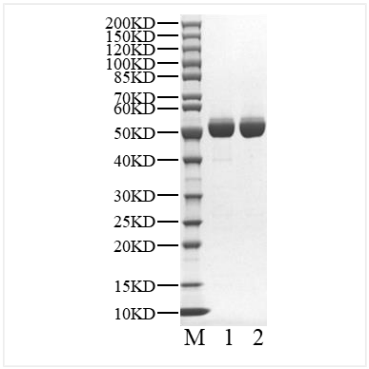
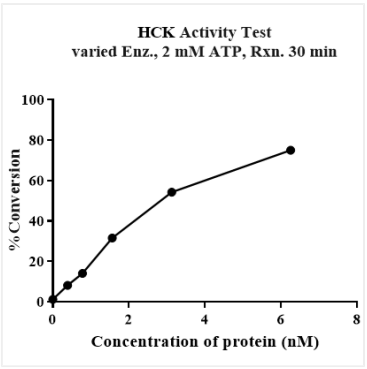
Validation Data



Recombinant Human Tyrosine-protein kinase HCK was determined by SDS-PAGE under reducing (R) and non-reducing (NR) conditions.



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