

Catalog No.: RP03415LQ **Recombinant**

Species	Gene ID	Swiss Prot
Human	3702	O08881

Tags
N-GST

Synonyms
ITK; EMT; LYK; IL-2-inducible T-cell kinase; Kinase EMT; Tyrosine-protein kinase Lyk; Tyrosine-protein kinase ITK/TSK; LPFS1; PSCTK2

Source	Purification
Baculovirus-Insect Cells	≥ 90 % as determined by SDS-PAGE; ≥ 90 % as determined by HPLC.

Calculated MW	Observed MW
98.4 kDa	85-100 kDa

< 1 EU/μg of the protein by LAL method.

Supplied as a 0.22 µm filtered solution in 50 mM Tris-HCl, 150 mM NaCl, 5% glycerol. (pH 8.0). Contact us for customized product form or formulation.

Please use running water to thaw it quickly.

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Tyrosine-protein kinase ITK/TSK also known as interleukin-2-inducible T-cell kinase or simply ITK, is a protein that in humans is encoded by the ITK gene. ITK is a member of the TEC family of kinases and is highly expressed in T cells. ITK contains the following domains, which are often found in intracellular kinases: N-terminus – PH (pleckstrin homology domain), TH – Tec family homology domain (including Bruton's tyrosine kinase Cys-rich motif and Proline rich region), SH3 – (Src homology 3), SH2 – (Src homology 2), C-terminus – tyrosine kinase, catalytic domain. ITK is thought to play a role in T-cell proliferation and differentiation, and is functionally important for the development and effector function of Th2 and Th17 cells. Mice lacking ITK were shown to not be susceptible to asthma.

Recombinant Human ITK Kinase is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Met1-Leu620) of Human ITK (Accession #Q08881) fused with a N-GST tag.

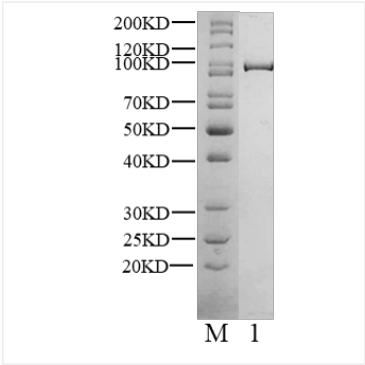
The activity of ITK is based on the MSA technology, and the content and ratio of the substrate and the product are directly separated and detected in real time and dynamically by the different migration rates of the substrate and the product after the enzymatic reaction.

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

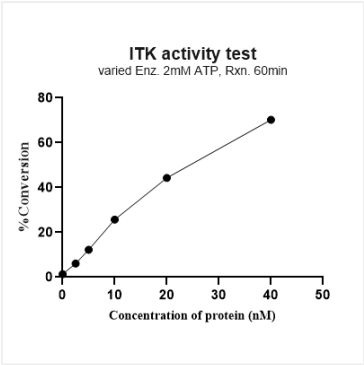
Store at -70°C. This product is stable at $\leq -70^{\circ}\text{C}$ for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature. Aliquots below 10 μL are not advisable. Product must not be stored in diluted solutions. Avoid repeated freeze-thaw cycles. Avoid repeated freeze/thaw cycles.

For your safety and health, please wear a lab coat and disposable gloves for handling.

Validation Data



Recombinant Human ITK Kinase was resolved with SDS-PAGE under reducing (Lane 1) conditions.



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