

Recombinant Human ITK Kinase

Catalog No.: RP03415LQ

Sequence Information

Species **Gene ID**
Human 3702

Swiss Prot **Tags**
Q08881 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

Product Information

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

Endotoxin

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

Formulation

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.

Reconstitution

Please use running water to thaw it quickly.

Background

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.

Basic Information

Description

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.

Activity

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.

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -70°C

Operational Notes

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

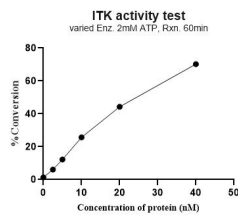
Contact

☎ | 400-999-6126

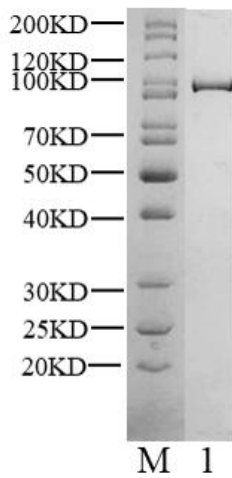
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Validation Data



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.



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