

Recombinant Human IL2-Inducible T-Cell Kinase, GST-tagged

Cat. No. ITK-5438H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinanthuman full length ITK, GST-tagged. Activated in vitro via auto-phosphorylation.
Species	Human
Source	Insect Cells
Description	ITK is a member of the TEC family of non-receptor tyrosine kinases. ITK is expressed in T-cells and is important for T-cell development and activation through the antigen receptor. ITK require prior activation of Lck, Zap-70 and PI3-kinase for efficient activation and shares major substrates with both Lck and Zap-70. ITK knockout mice show multiple effects on T cell development, cytokine production and T-helper cell differentiation. T cells that lack or express mutant versions of ITK show impaired TCR-induced actin polymerization, cell polarization and regulation of the signaling events involved in cytoskeletal reorganization.
Form	Liquid in 50 mM Tris, pH 7.5 + 150 mM NaCl + 0.5 mM EDTA + 0.02% Triton X-100 + 2 mM DTT + 50% glycerol.
Molecular Weight	99.9 kDa
Storage	Stable for 6 months in working aliquots at -80°C. Avoid repeated freeze-thaw cycles.
Official Symbol	ITK

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Full Length	Full L.
GENE INFORMATION	
Gene Name	ITKIL2-inducible T-cell kinase [Homo sapiens]
Synonyms	ITK; IL2-inducible T-cell kinase; EMT; LYK; PSCTK2; MGC126257;MGC126258; tyrosine-protein kinase LYK; homolog of mouse T-cell itk/tsk;tyrosine-protein kinase ITK/TSK; EC 2.7.10.2; Kinase EMT
Gene ID	3702
mRNA Refseq	NM_005546
Protein Refseq	NP_005537
MIM	186973
UniProt ID	Q08881
Chromosome Location	5q31-q32
Pathway	Chemokine signaling pathway;Leukocyte transendothelial migration; T cell receptor signaling pathway; AdaptiveImmune System; B Cell Receptor Signaling Pathway; Class I PI3K signaling events;Fc-epsilon receptor I signaling in mast cells
Function	ATP binding; metal ion binding;non-membrane spanning protein tyrosine kinase activity; nucleotide binding;protein binding; transferase activity; zinc ion binding

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