

Recombinant Human ITK (N-GST tag)

Cat No:HR2R1646

For research use only

Overview

| Quantity | 10 ?g |
|-----------------------|---|
| Gene Symbol | ITK |
| Gene ID | N/A |
| Accession | NM_005546 |
| Alternative Name | EMT; LYK; PSCTK2; MGC126257; MGC126258 |
| 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 requires prior activation of LCK, ZAP70 and PI3-kinase for efficient activation and shares major substrates with both LCK and ZAP70 . 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 . |
| Functions | The specific activity of ITK was determined to be 50nmol /min/mg as per activity assay protocol. |
| Formulation | 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol. |
| Solubility | N/A |
| Appearance | Liquid |
| Molecular Weight | 108 |
| Purity | 70% - 90% |
| Concentration | |
| Shipping Condition | Dry Ice |
| Storage Condition | Store product at ?70?C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles. |