

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.