

Recombinant Human Tec Protein Tyrosine Kinase, GST-tagged

Cat. No. TEC-1111H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Full-length recombinant human TEC was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
Description	TEC is a member of the Tec family of non-receptor protein-tyrosine kinases that are involved in the intracellular signaling mechanisms of cytokine receptors, lymphocyte surface antigens, heterotrimeric G-protein coupled receptors, and integrin molecules. TEC is an integral component of T cell signaling and has a distinct role in T cell activation. Defects in TEC may be associated with myelodysplastic syndrome. TEC plays a crucial role in regulating FGF2 secretion under various physiological conditions and it inhibits CD25 expression in human T-lymphocyte.
Applications	Kinase Assay; Western Blot
Molecular Weight	103 kDa
Expression System	Sf9 insect cells using baculovirus
Form	Recombinant protein stored in 50mM sodium phosphate, pH 7.0, 300mM NaCl, 150 mM imidazole, 0.1 mM PMSF, 0.25 mM DTT, 25% glycerol.
Specific Activity	10 nmol/min/mg

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Purity	> 75 %
Concentration	0.1 ug/ul
Sequences	Full-length
Storage	Store product at -70oC. 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.
Pathways	T cell receptor signaling pathway
GENE INFORMATION	
Gene Name	TEC tec protein tyrosine kinase [Homo sapiens]
Official Symbol	TEC
Synonyms	TEC; tec protein tyrosine kinase; PSCTK4; MGC126760; MGC126762; tyrosine-protein kinase Tec; EC 2.7.10.2
Gene ID	7006
mRNA Refseq	NM_003215
Protein Refseq	NP_003206
MIM	600583
UniProt ID	P42680

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Chromosome**Location**

4p12

Function

ATP binding; metal ion binding; non-membrane spanning protein tyrosine kinase activity; nucleotide binding; protein binding; transferase activity

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