

Active Recombinant Human LCK, His-tagged

Cat. No. LCK-692H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant, human Lck fused to a His Tag sequence and expressed in <i>S. frugiperda</i> insect cells. Lck is a member of the Src tyrosine kinases that plays a role in T cell activation and in the regulation of mitochondrial apoptosis pathways.
Species	Human
Source	<i>S. frugiperda</i>
Description	LCK (p56lck) is a member of the src family of non-receptor tyrosine kinases. It was identified as a gene rearranged and overexpressed in the murine lymphoma LSTRA, most likely as a result of the insertion of Moloney murine leukemia virus DNA immediately adjacent to the gene. Lck behaves as a proto-oncogene and can lead to cell transformation upon activation. A number of human cancer cell lines show overexpression of LCK, pointing to a possible role for this kinase in the initiation and maintenance of the transformed state in human cancers.
Form	Liquid.
Formulation	In 100 mM NaCl, 50 mM Tris-HCl, 1 mM DTT, 50 µM EDTA, 50% glycerol, 0.05% NP-40, pH 7.5.
Molar Mass	60500 Da.
Specific Activity	≥100 U/mg protein.

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Unit Definition	One unit is defined as the amount of enzyme that will transfer 1.0 nmol phosphate to poly (Glu,Tyr) 4:1 substrate per min at 30°C, pH 7.5.
Purity	≥90% by SDS-PAGE.
Storage	≤ -70oC. Ship: Dry Ice Only.
GENE INFORMATION	
Gene Name	LCK lymphocyte-specific protein tyrosine kinase [Homo sapiens]
Synonyms	LCK; lymphocyte-specific protein tyrosine kinase; YT16; p56lck; pp58lck; protein tyrosine kinase; protein tyrosine kinase; protein tyrosine kinase; protein tyrosine kinase; EC 2.7.10.2; LSK; p56-LCK; Lymphocyte cell-specific protein-tyrosine kinase; T cell-specific protein-tyrosine kinase
Gene ID	3932
mRNA Refseq	NM_001042771
Protein Refseq	NP_001036236
MIM	153390
UniProt ID	P06239
Chromosome Location	1p34.3
Pathway	Natural killer cell mediated cytotoxicity; Primary immunodeficiency; T cell receptor signaling pathway; HIV Infection; HIV Infection; Signaling in Immune system

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Function

non-membrane spanning protein tyrosine kinase activity; ATP binding; ATPase binding; CD4 receptor binding; CD8 receptor binding; SH2 domain binding; glycoprotein binding; nucleotide binding; phosphoinositide 3-kinase binding; protein C-terminus binding; protein kinase binding; protein serine/threonine phosphatase activity; transferase activity

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