# Active Recombinant Human LCK, His-tagged

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

## SPECIFICATION

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| **Product Overview** | Recombinant, human Lck fused to a His Tag sequence and expressed in*S. frugiperda 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** | S.frugiperda |
| **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

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| **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 |
| **The SH2 domain of human Lck.** |  |

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