

Bioactive

# LCK (Human) Recombinant Protein

Catalog # P6513

Size 5 ug

## Applications

### Result of activity analysis

Result of activity analysis

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## Specification

<b>Product Description</b>	Human LCK (NP_005347.2, 544 a.a. - 976 a.a.) partial recombinant protein with GST-tag at N-terminal using baculovirus expression system.
<b>Host</b>	Viruses
<b>Form</b>	Liquid
<b>Preparation Method</b>	Baculovirus expression system.
<b>Purification</b>	Glutathione sepharose chromatography.
<b>Purity</b>	0.68
<b>Activity</b>	The activity was measured by off-chip mobility shift assay. The enzyme was incubated with fluorescein-labeled substrate and Mg (or Mn)/ATP. Substrate: Src tide, ATP: 100 uM.
<b>Quality Control Testing</b>	The purity was assessed by SDS-PAGE/CBB staining.
<b>Storage Buffer</b>	50 mM Tris-HCl, 150 mM NaCl, 0.05% Brij35, 1 mM DTT, 10% glycerol, pH7.5
<b>Storage Instruction</b>	Stored at -80°C. Aliquot to avoid repeated freezing and thawing.

Note	Result of activity analysis
	Result of activity analysis

## Applications

- Functional Study

## Gene Info — LCK

Entrez GeneID [3932](#)

Protein Accession# [NP\\_005347.2](#)

Gene Name LCK

Gene Alias YT16, p56lck, pp58lck

Gene Description lymphocyte-specific protein tyrosine kinase

Omim ID [153390](#)

Gene Ontology [Hyperlink](#)

**Gene Summary** This gene is a member of the Src family of protein tyrosine kinases (PTKs). The encoded protein is a key signaling molecule in the selection and maturation of developing T-cells. It contains N-terminal sites for myristylation and palmitoylation, a PTK domain, and SH2 and SH3 domains which are involved in mediating protein-protein interactions with phosphotyrosine-containing and proline-rich motifs, respectively. The protein localizes to the plasma membrane and pericentrosomal vesicles, and binds to cell surface receptors, including CD4 and CD8, and other signaling molecules. Multiple alternatively spliced variants, encoding the same protein, have been described. [provided by RefSeq]

**Other Designations** T-lymphocyte specific protein tyrosine kinase p56lck|p56(LSTRA) protein-tyrosine kinase|protein tyrosine kinase|proto-oncogene tyrosine-protein kinase LCK

## Pathway

- [Natural killer cell mediated cytotoxicity](#)
- [Primary immunodeficiency](#)
- [T cell receptor signaling pathway](#)

## Disease

- [HIV Infections](#)
- [Tobacco Use Disorder](#)