

## Active Recombinant human LIMK1, GST-tagged

Cat. No. LIMK1-1542H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human LIMK1 (285-638) was expressed by baculovirus in Sf9 cells using an N-terminal GST tag.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>ProteinLength</b>	285-638 a.a.
<b>Description</b>	<p>LIMK1 or LIM domain kinase 1 contains a unique combination of 2 N-terminal LIM domain and a C-terminal protein kinase domain. LIM domains are highly conserved cysteine-rich structures containing 2 zinc fingers that can bind to DNA/RNA as well as mediating protein-protein interactions (1). LIMK1 is thought to be a component of an intracellular signaling pathway that may be involved in brain development especially development of nerve cells. LIMK1 may play an important role in areas of the brain that are responsible for processing visual-spatial information (visuospatial constructive cognition). LIMK1 can regulate aspects of the cytoskeleton, the structural framework that helps to determine cell shape, size, and movement (2).</p>
<b>Form</b>	Liquid
<b>Bio-activity</b>	8nmol/min/mg
<b>Molecular Mass</b>	~65 kDa

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Purity</b>	>95% by SDS - PAGE.
<b>Storage</b>	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.
<b>Concentration</b>	0.1ug/ul
<b>Storage Buffer</b>	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">LIMK1 LIM domain kinase 1 [ Homo sapiens ]</a>
<b>Official Symbol</b>	LIMK1
<b>Synonyms</b>	LIMK1; LIM domain kinase 1; LIMK; LIM motif-containing protein kinase; LIMK-1;
<b>Gene ID</b>	<a href="#">3984</a>
<b>mRNA Refseq</b>	<a href="#">NM_001204426</a>
<b>Protein Refseq</b>	<a href="#">NP_001191355</a>
<b>MIM</b>	<a href="#">601329</a>
<b>UniProt ID</b>	<a href="#">P53667</a>
<b>Chromosome Location</b>	7q11.23

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



**Pathway**

Axon guidance, organism-specific biosystem; Axon guidance, conserved biosystem; Axon guidance, organism-specific biosystem; Axon guidance, organism-specific biosystem; CDC42 signaling events, organism-specific biosystem; CXCR4-mediated signaling events, organism-specific biosystem; Caspase cascade in apoptosis, organism-specific biosystem;

**Function**

ATP binding; heat shock protein binding; metal ion binding; nucleotide binding; protein binding; protein kinase activity; protein serine/threonine kinase activity; zinc ion binding;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA