

Active Recombinant human LIMK1, GST-tagged

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

SPECIFICATION

Product Overview	Recombinant human LIMK1 (285-638) was expressed by baculovirus in Sf9 cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	285-638 a.a.
Description	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).
Form	Liquid
Bio-activity	8nmol/min/mg
Molecular Mass	~65 kDa

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

GENE INFORMATION

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

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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;

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