

# Recombinant Full Length Human LIMK1 Protein, GST-tagged

Cat. No. LIMK1-675HF Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant full length Human LIMK1(1 a.a. - 647 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	647 amino acids
<b>Description</b>	<p>There are approximately 40 known eukaryotic LIM proteins, so named for the LIM domains they contain. LIM domains are highly conserved cysteine-rich structures containing 2 zinc fingers. Although zinc fingers usually function by binding to DNA or RNA, the LIM motif probably mediates protein-protein interactions. LIM kinase-1 and LIM kinase-2 belong to a small subfamily with a unique combination of 2 N-terminal LIM motifs and a C-terminal protein kinase domain. LIMK1 is a serine/threonine kinase that regulates actin polymerization via phosphorylation and inactivation of the actin binding factor cofilin. This protein is ubiquitously expressed during development and plays a role in many cellular processes associated with cytoskeletal structure. This protein also stimulates axon growth and may play a role in brain development. LIMK1 hemizygoty is implicated in the impaired visuospatial constructive cognition of Williams syndrome. Alternative splicing results in multiple transcript variants encoding distinct isoforms.</p>
<b>Form</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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**Molecular Mass** 96.8 kDa

**AA Sequence**

MRLTLLCCTW REERMGEEGS ELPVCASCGQ RIYDGQYLQA LNADWHADCF  
 RCCDCSASLS HQYYEKDGQL FCKKDYWARY GESCHGCSEQ ITKGLVMVAG  
 ELKYHPECFI CLTCGTFIGD GDTYTLVEHS KLYCGHCYYQ TVVTPVIEQI  
 LPDSPGSHLP HTVTLVSIPA SSHGKRGLSV SIDPPHPPG CGTEHSHTVR  
 VQGVDPGCMS PDVKNSIHVG DRILEINGTP IRNVPLDEID LLIQETSRL  
 QLTLEHDPHD TLGHGLGPET SPLSSPAYTP SGEAGSSARQ KPVLRSCSID  
 RSPGAGSLGS PASQRKDLGR SESLRVVCPR HRIFRPSDLI HGEVLGKGC  
 GQAIKVTHRE TGEVMVMKEL IRFDEETQRT FLKEVKVMRC LEHPNVLKF  
 GVLYKDKRLN FITEYIKGGT LRGIIKSMS QYPWSQRVSF AKDIASGMAY  
 LHSMNIIHRD LNSHNCLVRE NKNVVVADFG LARLMVDEKT QPEGLRSLKK  
 PDRKKRYTVV GNPYWMAPEM INGRSYDEKV DVFSFGIVLC EIIGRVNADP  
 DYLPRTMDFG LNVRGFLDRY CPPNPPSFF PITVRCCDL PEKRPSFVKL  
 EHWLETLRMH LAGHLPLGPQ LEQLDRGFWE TYRRGESGLP AHPEVPD

**Storage** Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

## 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\\_002314](#)

**Protein Refseq** [NP\\_002305](#)

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<b>MIM</b>	601329
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<b>UniProt ID</b>	P53667
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