

Recombinant Human LIMK1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. LIMK1-3693H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	LIMK1 MS Standard C13 and N15-labeled recombinant protein (NP_002305) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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 hemizyosity is implicated in the impaired visuospatial constructive cognition of Williams syndrome. Alternative splicing results in multiple transcript variants encoding distinct isoforms.
Molecular Mass	72.4 kDa

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AA Sequence

MRLTLLCCTWREERMGEEGSELPVCASCGQRIYDGQYLQALNADWHADCFRCCD
 CSASLSHQYYEKDGLFCKKDYWARYGESCHGCSEQITKGLVMVAGELKYHPECFI
 CLTCGTFIGDGDYTLVEHSKLYCGHCYYQTVVTPVIEQILPDSPGSHLPHTVTLVSIP
 ASSHGKRGLSVSIDPPHGPPGCGTEHSHTVRVQGVDPGCMSPDVKNSIHVGDRILE
 INGTPIRNVPLDEIDLLIQETSRLQLTLEHDPHDTLGHGLGPETSPLSSPAYTPSGEA
 GSSARQKPVLRSIDRSPGAGSLGSPASQRKDLGRSESLRVVCRPHRIFRPSDLIH
 GEVLGKGCGFGQAIKVTHRETGEVMVMKELIRFDEETQRTFLKEVKVMRCLEHPNVL
 KFIGVLYKDKRLNFITEYIKGGTLRGIKSMDSQYPWSQRVSFAKDIASGMAYLHSMNI
 IHRDLNSHNCLVRENKNVVVADFGRLARLMVDEKTQPEGLRSLKKPDRKKRYTVVGN
 PYWMAPEMINGRSYDEKVDVFSFGIVLCEIIGRVNADPDYLPRTMDFGLNVRGFLDR
 YCPPNCPPSFFPITVRCCDLDPKRPSPFVKLEHWLETLRMHLAGHLPLGPQLEQLD
 RGFWETYRRGESGLPAHPEVPDTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining

Stability

Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage

Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration

50 µg/mL as determined by BCA

Storage Buffer

100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION
Gene Name

LIMK1 LIM domain kinase 1 [Homo sapiens (human)]

Official Symbol

LIMK1

Synonyms

LIMK1; LIM domain kinase 1; LIMK; LIM motif-containing protein kinase; LIMK-1;

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Gene ID	3984
mRNA Refseq	NM_002314
Protein Refseq	NP_002305
MIM	601329
UniProt ID	P53667
SDS-PAGE	