

Datasheet for ABIN7549087  
**LIMK2 Protein (AA 1-638) (His tag)**



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## Overview

Quantity:	1 mg
Target:	LIMK2
Protein Characteristics:	AA 1-638
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This LIMK2 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant LIMK2 Protein expressed in mammalian cells.
Sequence:	MSALAGEDVW RCPGCGDHIA PSQIWYRTVN ETWHGSCFRC SECQDSL TNW YYEKDGKLYC PKDYWGKFG E FCHGCSLLMT GPFMVAGEFK YHPECFACMS CKVIIEDGDA YALVQHATLY CGKCHNEVVL APMFERLSTE SVQEQLPYSV TLISMPATTE GRRGFSVSVE SACSNYATTV QVKEVNRMI SPNNRNAIHP GDRILEINGT PVRTL RVEEV EDAISQTSQT LQLLIEHDPV SQRLDQLRLE ARLAPHMQNA GHPHALSTLD TKENLEGLTR RRLRRS NSI SKSPGPSSPK EPLLFSRDIS RSESLRCSSS YSQIFRPCD LIHGEVLGKG FFGQAIKVTH KATGKVMVMK ELIRCDEETQ KTFLEVKVM RSLDHPNVLK FIGVLYKDKK LNLLTEYIEG GTLKDFLRSM DPFPWQQKVR FAKGIASGMA YLHSMCIHR DLNSHNCLIK LDKTVV VADF GLSRLIVEER KRAPMEKATT KKRTL RKNDR KKRYTVVGNP YWMAPEMLNG KSYDETVDIF SFGIVLCEII GQVYADPDCL PRTLDFGLNV KLFWEKFVPT DCPPAFFPLA AICCRLEPES RPAFSKLEDS FEALSLYLGE LGIPLPAELE ELDHTVSMQY GLTRDSPP <b>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity</b>

## Product Details

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**of the protein could make another tag necessary. In case you have a special request, please contact us.**

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Characteristics: Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

## Target Details

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Target: LIMK2

Alternative Name: LIMK2 ([LIMK2 Products](#))

Background: LIM domain kinase 2 (LIMK-2) (EC 2.7.11.1),FUNCTION: Serine/threonine-protein kinase that plays an essential role in the regulation of actin filament dynamics (PubMed:10436159, PubMed:11018042). Acts downstream of several Rho family GTPase signal transduction pathways (PubMed:10436159, PubMed:11018042). Involved in astral microtubule organization and mitotic spindle orientation during early stages of mitosis by mediating phosphorylation of TPPP (PubMed:22328514). Displays serine/threonine-specific phosphorylation of myelin basic protein and histone (MBP) in vitro (PubMed:8537403). Suppresses ciliogenesis via multiple pathways, phosphorylation of CFL1, suppression of directional trafficking of ciliary vesicles to the ciliary base, and by facilitating YAP1 nuclear localization where it acts as a transcriptional

## Target Details

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corepressor of the TEAD4 target genes AURKA and PLK1 (PubMed:25849865).  
{ECO:0000269|PubMed:10436159, ECO:0000269|PubMed:11018042,  
ECO:0000269|PubMed:22328514, ECO:0000269|PubMed:25849865,  
ECO:0000269|PubMed:8537403}.

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Molecular Weight: 72.2 kDa

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UniProt: [P53671](#)

## Application Details

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Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months