

Datasheet for ABIN7563436

LIM Domain Kinase 1 Protein (LIMK1) (AA 1-647) (His tag)



Overview

Quantity:	1 mg
Target:	LIM Domain Kinase 1 (LIMK1)
Protein Characteristics:	AA 1-647
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This LIM Domain Kinase 1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Limk1 Protein expressed in mammalian cells.
Sequence:	MRLTLLCCTW REERMGEEGS ELPVCASCGQ RIYDGQYLQA LNADWHADCF RCCECSVSLS
	HQYYEKDGQL FCKKDYWARY GESCHGCSEH ITKGLVMVAG ELKYHPECFI CLACGNFIGD
	GDTYTLVEHS KLYCGQCYYQ TVVTPVIEQI LPDSPGSHLP HTVTLVSIPA SAHGKRGLSV
	SIDPPHGPPG CGTEHSHTVR VQGVDPGCMS PDVKNSIHVG DRILEINGTP IRNVPLDEID
	LLIQETSRLL QLTLEHDPHD SLGHGPVSDP SPLSSPVHTP SGQAASSARQ KPVLRSCSID
	TSPGTSSLAS PASQRKDLGR SESLRVVCRP HRIFRPSDLI HGEVLGKGCF GQAIKVTHRE
	TGEVMVMKEL IRFDEETQRT FLKEVKVMRC LEHPNVLKFI GVLYKDKRLN FITEYIKGGT
	LRGIIKNMDS QYPWSQRVSF AKDIASGMAY LHSMNIIHRD LNSHNCLVRE NRNVVVADFG
	LARLMIDEKN QSEDLRSLKK PDRKKRYTVV GNPYWMAPEM INGRSYDEKV DVFSFGIVLC
	EIIGRVNADP DYLPRTMDFG LNVRGFLDRY CPPNCPPSFF PITVRCCDLD PEKRPSFVKL
	EQWLETLRMH LSGHLPLGPQ LEQLERGFWE TYRRGESSLP AHPEVPD Sequence without tag.
	The proposed Purification-Tag is based on experiences with the expression system, a

	different complexity 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	
Target:	LIM Domain Kinase 1 (LIMK1)
Alternative Name:	Limk1 (LIMK1 Products)
Background:	LIM domain kinase 1 (LIMK-1) (EC 2.7.11.1) (KIZ-1),FUNCTION: Serine/threonine-protein kinas
	that plays an essential role in the regulation of actin filament dynamics (PubMed:15056216,
	PubMed:16204183). Acts downstream of several Rho family GTPase signal transduction
	pathways (PubMed:15056216). Activated by upstream kinases including ROCK1, PAK1 and
	patriways (Fubivied. 15050210). Activated by apstream kinases including ROOK1, FAK1 and
	PAK4, which phosphorylate LIMK1 on a threonine residue located in its activation loop. LIMK1
	PAK4, which phosphorylate LIMK1 on a threonine residue located in its activation loop. LIMK1

dependent biological processes including cell motility, cell cycle progression, and

Target Details

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	differentiation. Phosphorylates TPPP on serine residues, thereby promoting microtubule disassembly. Stimulates axonal outgrowth and may be involved in brain development (By similarity). {ECO:0000250 UniProtKB:P53667, ECO:0000269 PubMed:15056216, ECO:0000269 PubMed:16204183}.
Molecular Weight:	72.8 kDa
UniProt:	P53668
Pathways:	Caspase Cascade in Apoptosis, Regulation of Cell Size, CXCR4-mediated Signaling Events
Application Details	
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.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months