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Datasheet for ABIN3093581
LIMCH1 Protein (AA 1-1083) (Strep Tag)

Overview

Quantity:	1 mg
Target:	LIMCH1
Protein Characteristics:	AA 1-1083
Origin:	Human
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This LIMCH1 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Sequence: MACPALGLEA LQPLQPEPPP EPAFSEAQKW IEQVTGRSFG DKDFRTGLEN GILLCELLNA
IKPGLVKKIN RLPTPIAGLD NIILFLRGCK ELGLKESQLF DPSDLQDTSN RVTVKSLDYS
RKLKNVLVTI YWLGKAANSC TSYSGTTLNL KEFEGLLAQM RKDTHDIESP KRSIRDSGYI
DCWDSERSDS LSPPRHGRDD SFDLSLDFGS RSRQTPSPDV VLRGSSDGRG SDESIDLPHR
KLPDVKKDDM SARRTSHGEP KSAVPFNQYL PNKSNQTAYV PAPLRKKKAE REEYRKSWS
ATSPLGGERP FRYGPRTPVS DDAESTSMFD MRCEEEAAVQ PHSRARQEQ LQINNQLREE
DDKWQDDLAR WKSRRRSVSQ DLIKKEEERK KMEKLLAGED GTSERRRSIK TYREIVQEKE
RRERELHEAY KNARSQEEAE GILQQYIERF TISEAVLERL EMPKILERSH STEPNLSSFL
NDPNPMKYLR QQSLPPPFT ATVETTIARA SVLDTSMSAG SGSPSKTVTP KAVPMLTPKP
YSQPKNSQDV LKTFKVDGKV SVNGETVHRE EEKERECPTV APAHSLTKSQ MFEGVARVHG
SPLELKQDNG SIEINIKKPN SVPQELAATT EKTEPNSQED KNDGGKSRKG NIELASSEPQ
HFTTTVTRCS PTVAFVEFPS SPQLKNDVSE EKDQKPKENE MSGKVELVLS QKVVKPKSPE

PEATLTFPFL DKMPEANQLH LPNLNSQVDS PSSEKSPVMT PQFKFWAWDP EEERRRQEKW
QQEQERLLQE RYQKEQDKLK EEWKAQKEV EEEERRYYEE ERKIIEDTVV PFTVSSSSAD
QLSTSSSMTE GSGTMNKIDL GNCQDEKQDR RWKKSFGQDD SDLLKKTRES DRLEEKGSLT
EGALAHSGNP VSKGVHEDHQ LDTEAGAPHC GTNPQLAQDP SQNQQTSNPT HSSDEVKPKT
LPLDKSINHQ IESPSERRKK SPREHFQAGP FSPCSPTPPG QSPNRSISGK KLCSSCGLPL
GKGAAMIIET LNLYFHIQCF RCGICKGQLG DAVSGTDVRI RNgLLNCNDc YMRsRSAGQP TTL

Sequence without tag. The proposed Strep-Tag is based on experience s 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.

Characteristics:

Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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 will ensure that you receive a correctly folded protein.

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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.

Product Details

- The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): <ol style="list-style-type: none">1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)

Target Details

Target:	LIMCH1
Alternative Name:	LIMCH1 (LIMCH1 Products)
Background:	LIM and calponin homology domains-containing protein 1,FUNCTION: Actin stress fibers-associated protein that activates non-muscle myosin IIa. Activates the non-muscle myosin IIa complex by promoting the phosphorylation of its regulatory subunit MRLC/MYL9. Through the activation of non-muscle myosin IIa, positively regulates actin stress fibers assembly and stabilizes focal adhesions. It therefore negatively regulates cell spreading and cell migration. {ECO:0000269 PubMed:28228547}.
Molecular Weight:	121.9 kDa
UniProt:	Q9UPQ0

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational

Application Details

modifications.

During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)