

Datasheet for ABIN3134700

MPRIP Protein (AA 1-1024) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	MPRIP
Protein Characteristics:	AA 1-1024
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MPRIP protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	<p>MSAAKENPCR KFQANIFNKS KCQNCFKPRE SHLLNDEDLT QAKPIYGGWL LLAPDGTDFD</p> <p>NPVHRSRKWQ RRFFILYEHG LLRYALDEMP TTLPQGTINM NQCTDVVDGE ARTGQKFSLC</p> <p>ILTPDKEHFI RAETKEIISG WLEMLMVYPR TNKQNQKKKR KVEPPTPQEP GPAKMAVTSS</p> <p>SGGSSGSSSS IPSAEKVPTT KSTLWQEEMR AKDQPDGTS� SPAQSPSQSQ PPAACTPREP</p> <p>GLESKEDEST ISGDRV DGGKVRVESGYFS LEKAKQDLRA EEQLPPLLSP PSPSTPHSRR</p> <p>SQVIEKFEAL DIEKAEHMET NMLILTPSS DTRQGRSERR AIPRKRFAS EAPTAPLSDA</p> <p>CPLSPHRRAK SLDRRSTESS MTPDLLNFKK GWLTKQYEDG QWKKHWFVLA DQSLRYRDS</p> <p>VAEEAADLDG EINLSTCYDV TEYPVQRNYG FQIHTKEGEF TLSAMTSGIR RNWIQTIMKH</p> <p>VLPASAPDVT SSLPEGKNKS TSFETCSRST EKQEAEPGEP DPEQKKSRRAR ERRREGRSKT</p> <p>FDWAEFRPIQ QALAQERASA VGSSDSGDPG CLEAEPGELE RERARRREER RKRFGMLDTI</p> <p>DGPGMEDTAL RMDIDRSPGL LGTPDLKTQN VHVEIEQRWH QVETTPREE KQVPIAPLHL</p>

SLEDRSERLS THELTSLEK ELEQSQKEAS DLLEQNRLQ DQLRVALGRE QSAREGYVLQ
ATCERGFAAM EETHQKKIED LQRQHORELE KLREEKDRLL AEETAATISA IEAMKNAHRE
EMERELEKSQ RSQISSIND IEALRRQYLE ELQSVQRELE VLSEQYSQKC LENAHLAAL
EAERQALRQC QRENQELNAH NQELNNRLAA EITRLRLLT GDGGGESTGL PLTQGKDAYE
LEVLLRVKES EIQYLKQEIS SLKDELQTAL RDKKYASDKY KDIYTELSIA KAKADCDISR
LKEQLKAATE ALGEKSPEGT TVSGYDIMKS KSNPDFLKRD RSCVTRQLRN IRKSVIEQV SWDN

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 in one-step affinity chromatography
- 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 try to ensure that you receive soluble 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.
- The protein's absorbance will be measured against its specific reference buffer.

Product Details

- We use the ExPASy's ProtParam tool to determine the absorption coefficient of each protein.

Purification: One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).

Purity: > 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Grade: custom-made

Target Details

Target: MPRIP

Alternative Name: Mprip ([MPRIP Products](#))

Background: Myosin phosphatase Rho-interacting protein (Rho-interacting protein 3) (RIP3) (p116Rip), FUNCTION: Targets myosin phosphatase to the actin cytoskeleton. Required for the regulation of the actin cytoskeleton by RhoA and ROCK1. Depletion leads to an increased number of stress fibers in smooth muscle cells through stabilization of actin fibers by phosphorylated myosin. Overexpression of MRIP as well as its F-actin-binding region leads to disassembly of stress fibers in neuronal cells. {ECO:0000269|PubMed:12732640, ECO:0000269|PubMed:15469989}.

Molecular Weight: 116.4 kDa

UniProt: [P97434](#)

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 *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

Application Details

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Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.
Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months