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MKNK2 Protein (AA 1-459) (Strep Tag)



Overview

Quantity:	1 mg
Target:	MKNK2
Protein Characteristics:	AA 1-459
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MKNK2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:

MVQKRTAELQ GFHRSFKGQN PFELAFSLDL AQHRDSDFSP QCEARPDMPS SQPIDIPDAK KRGRKKKRCR ATDSFSGRFE DVYQLQEDVL GEGAHARVQT CVNLITNQEY AVKIIEKQLG HIRSRVFREV EMLYQCQGHR NVLELIEFFE EEDRFYLVFE KMRGGSILSH IHRRRHFNEL EASVVVQDVA SALDFLHNKG IAHRDLKPEN ILCEHPNQVS PVKICDFDLG SGIKLNGDCS PISTPELLTP CGSAEYMAPE VVEAFSEEAS IYDKRCDLWS LGVILYILLS GYPPFVGHCG SDCGWDRGEA CPACQNMLFE SIQEGKYEFP DKDWSHISFA AKDLISKLLV RDAKQRLSAA QVLQHPWVQG CAPENTLPTP LVLQRNSCAK DLTSFAAEAI AMNRQLAQCE EDAGQDQPVV IRATSRCLQL SPPSQSKLAQ RRQRASLSAT PVVLVGDRA

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 posttranslational 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 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®):

- 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.
- 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.

Product Details ≥ 80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot. Purity: Endotoxin Level: Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg) Target Details MKNK2 Target: Mknk2 (MKNK2 Products) Alternative Name: Background: MAP kinase-interacting serine/threonine-protein kinase 2 (EC 2.7.11.1) (MAP kinase signalintegrating kinase 2) (MAPK signal-integrating kinase 2) (Mnk2),FUNCTION: Serine/threonineprotein kinase that phosphorylates SFPQ/PSF, HNRNPA1 and EIF4E. May play a role in the response to environmental stress and cytokines. Appears to regulate translation by phosphorylating EIF4E, thus increasing the affinity of this protein for the 7-methylguanosinecontaining mRNA cap. Required for mediating PP2A-inhibition-induced EIF4E phosphorylation. Triggers EIF4E shuttling from cytoplasm to nucleus. Enhances the formation of EIF4F complex in pachytene spermatocytes, thus promoting mRNA translation during spermatogenesis. Displays a high basal kinase activity. Acts as a mediator of the suppressive effects of IFNgamma on hematopoiesis. Negative regulator for signals that control generation of arsenic trioxide As(2)O(3)-dependent apoptosis and anti-leukemic responses. Involved in anti-apoptotic signaling in response to serum withdrawal. {ECO:0000269|PubMed:11154262, ECO:0000269|PubMed:17689282, ECO:0000269|PubMed:17903173, ECO:0000269|PubMed:20574055, ECO:0000269|PubMed:20823271, ECO:0000269|PubMed:20927323, ECO:0000269|PubMed:9155017}. Molecular Weight: 51.6 kDa UniProt: O8CDB0 Pathways: **MAPK Signaling 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

Application Details

modifications.

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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)