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# MAP3K13 Protein (AA 1-959) (Strep Tag)



#### Overview

Quantity:	1 mg
Target:	MAP3K13
Protein Characteristics:	AA 1-959
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MAP3K13 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

#### **Product Details**

Sequence:

MANPQEHLSC SSLPHLPLTE NKTSGGRNEL AAMGNHPSPK LPEDPQERGA IQSELMEITG
SPISTTVLTS VSEDSRGQFE NSVLQLREQD ESEMTLSLGN SNTVDGENTN GPEDIKIQFS
RSGSGSGGFL EGLFGCLRPV WNIIGKAYST DYKLQQQDTW EVPFEEISEL QWLGSGAQGA
VFLGKFRAEE VAIKKVREQN ETDIKHLRKL KHPNIIAFKG VCTQAPCYCI IMEYCAHGQL
YEVLRAGRKI TPRLLVDWST GIASGMNYLH LHKIIHRDLK SPNVLVTHTD AVKISDFGTS
KELSDKSTKM SFAGTVAWMA PEVIRNEPVS EKVDIWSFGV VLWELLTGEI PYKDVDSSAI
IWGVGSNSLH LPVPSTCPDG FKILMKQTWQ SKPRNRPSFR QTLMHLDIAS ADVLATPQET
YFKSQAEWRE EVKKHFEKIK SEGTCIHRLD EELIRRRREE LRHALDIREH YERKLERANN
LYMELSAIML QLEMREKELL KREQAVEKKY PGTYKRHPVR PIIHPNAMEK LMKRKGVPHK
AGVQTKRPDL LRSEGIPSTE AVPTASPLSG SPKMSTASSR SRYRSKPRHR RGNSRGSHSD
FAAILKTQPA QENSPHPTYM HHTQAQCASV HQHNPLQQQY QQIPPAQPQS RHPRLNAHGQ
DIATCANNLR YFGPAAALRS PLSNHAQRQM PGSSPDLIST AMAADWRNSE LDQDQVGPWG

CCQAEPYDPC FQCRPEHSGS LDVPTTEPVG RSPDLSSSPA HNPLSGNAQG SERTGANGFS
GCQSGISHQF TPPMLPQKTR PLQKSGDDSS EEEGEVDSEV EFPRRQRPHR CISSYQSYST
FSSENFSVSD GEEGNTSDHS NSPDESANRR QDRLAETLDD LLSQTPEAPI EISSHSDGLS
DKECAVRRVK TQMSLGKLCA EERGYENPVQ FGDSDCDSSE GECSDATVRT SKNYSSATW

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.

Product Details	
	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.
	<ol><li>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.</li></ol>
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:	MAP3K13
Alternative Name:	Map3k13 (MAP3K13 Products)
Background:	Mitogen-activated protein kinase kinase kinase 13 (EC 2.7.11.25),FUNCTION: Activates the JUN
	N-terminal pathway through activation of the MAP kinase kinase MAP2K7. Acts synergistically
	with PRDX3 to regulate the activation of NF-kappa-B in the cytosol. This activation is kinase-
	dependent and involves activating the IKK complex, the IKBKB-containing complex that
	phosphorylates inhibitors of NF-kappa-B (By similarity). {ECO:0000250}.
Molecular Weight:	107.0 kDa
UniProt:	Q1HKZ5
Pathways:	Signaling Events mediated by VEGFR1 and VEGFR2
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.

### **Application Details**

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)