

Datasheet for ABIN3125115

MAP4K5 Protein (AA 1-847) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	MAP4K5
Protein Characteristics:	AA 1-847
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MAP4K5 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	<p>MEAPLRPAAD ILRRNPQHDY ELVQRVGSGT YGDVYKARNV HTGELAAVKI IKLEPGDDFS</p> <p>LIQQEIFMVK ECKHCNIVAY FGSYLSREKL WICMEYCGGG SLQDIYHVTG PLSEMQIAYV</p> <p>CRETLQGLAY LHTKGKMHRD IKGANILLTD HGDVKLADFG VAAKITATIA KRKSFIGTPY</p> <p>WMAPEVAAVE KNGGYNQLCD IWAVGITAIE LGELQPPMFD LHPMRALFLM SKSNFQPPKL</p> <p>KDKTKWSSTF HNFVKIALTK NPKKRPTAER LLTHTFVGQP GLSRALAVEL LDKVSNPDNH</p> <p>APYSEGDEDD LEPAHIRHT IRSTNRNSRA ERTASEINF D KLQFEPPLRK ETEARDEMGL</p> <p>SSEPNFILHW NPFVDGANTG RSTSKRAIPP PLPPKPRVNT YPEDSLPDEE KSSTIKRCPD</p> <p>LEARAPQVLR RQSSPSCVPV AETSSSIGNG DGISKLISEN TEGSAQAPQL PRKKDKRDFP</p> <p>KPTINGLPPT PKVLMGACFS KVFDGCPLKI NCATSWIHPD TKDQYIIFGT EDGIYTLNLN</p> <p>ELHEATMEQL FPRKCTWLYV INNTLMSLSE GKTFQLYSHN LIALFEQAKK PGLAAHIQTH</p> <p>RFPDRILPRK FALTTKIPDT KGCHKCCIVR NPYTGHKYLC GALQSGIVLL QWYEPMQKFM</p>

LIKHFDFPLP SPLNVFEMLV IPEQEYPMVC VAISKGSDSS QVVQFETINL NSASSWFTEI
GAGSQQLDSI HVTQLERDTV LVCLDKFVKI VNLQGKLGKSS KKLASELSFD FRIESVVCLQ
DSVLAFWKHG MQGKSFKSDE VTQEISDETR VFRLLGSDRV VVLESRPTEN PAAHSNLYIL
AGHENSY

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

Product Details

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).
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Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
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Grade:	custom-made
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Target Details

Target:	MAP4K5
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Alternative Name:	Map4k5 (MAP4K5 Products)
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Background:	Mitogen-activated protein kinase kinase kinase kinase 5 (EC 2.7.11.1) (MAPK/ERK kinase kinase kinase 5) (MEK kinase kinase 5) (MEKKK 5),FUNCTION: May play a role in the response to environmental stress. Appears to act upstream of the JUN N-terminal pathway (By similarity). {ECO:0000250}.
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Molecular Weight:	95.0 kDa
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UniProt:	Q8BPM2
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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.
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Comment:	<p>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 modifications.</p> <p>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!</p>
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Restrictions:	For Research Use only
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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