Datasheet for ABIN3085442

SMEK2 Protein (AA 1-849) (Strep Tag)

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Overview

Quantity:	1 mg
Target:	SMEK2
Protein Characteristics:	AA 1-849
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SMEK2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MSDTRRRVKV YTLNEDRQWD DRGTGHVSST YVEELKGMSL LVRAESDGSL LLESKINPNT AYQKQQDTLI VWSEAENYDL ALSFQEKAGC DEIWEKICQV QGKDPSVEVT QDLIDESEEE RFEEMPETSH LIDLPTCELN KLEEIADLVT SVLSSPIRRE KLALALENEG YIKKLLQLFQ ACENLENTEG LHHLYEIIRG ILFLNKATLF EVMFSDECIM DVVGCLEYDP ALAQPKRHRE FLTKTAKFKE VIPITDSELR QKIHQTYRVQ YIQDIILPTP SVFEENFLST LTSFIFFNKV EIVSMLQEDE KFLSEVFAQL TDEATDDDKR RELVNFFKEF CAFSQTLQPQ NRDAFFKTLA KLGILPALEI VMGMDDLQVR SAATDIFSYL VEFSPSMVRE FVMQEAQQSD DDILLINVVI EQMICDTDPE LGGAVQLMGL LRTLIDPENM LATTNKTEKS EFLNFFYNHC MHVLTAPLLT NTSEDKCEKD FFLKHYRYSW SFICTPSHSH SHSTPSSSIS QDNIVGSNKN NTICPDNYQT AQLLALILEL LTFCVEHHTY HIKNYIMNKD LLRRVLVLMN SKHTFLALCA LRFMRRIIGL KDEFYNRYIT KGNLFEPVIN ALLDNGTRYN LLNSAVIELF EFIRVEDIKS LTAHIVENFY KALESIEYVQ TFKGLKTKYE QEKDRQNQKL NSVPSILRSN RFRRDAKALE EDEEMWFNED EEEEGKAVVA

PVEKPKPEDD FPDNYEKFME TKKAKESEDK ENLPKRTSPG GFKFTFSHSA SAANGTNSKS VVAQIPPATS NGSSSKTTNL PTSVTATKGS LVGLVDYPDD EEEDEEEESS PRKRPRLGS

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.

Purification:

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

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Product Details

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

Target Details

Target:	SMEK2
Alternative Name:	PPP4R3B (SMEK2 Products)
Background:	Serine/threonine-protein phosphatase 4 regulatory subunit 3B (SMEK homolog 2),FUNCTION: Regulatory subunit of serine/threonine-protein phosphatase 4 (PP4). May regulate the activity of PPP4C at centrosomal microtubule organizing centers.
Molecular Weight:	97.5 kDa
UniProt:	Q5MIZ7
Pathways:	Regulation of Carbohydrate Metabolic Process

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 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

Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

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