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MARK1 Protein (AA 1-795) (Strep Tag)



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Overview

Quantity:	1 mg
Target:	MARK1
Protein Characteristics:	AA 1-795
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MARK1 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:

MSARTPLPTV NERDTENHTS VDGYTEPHIQ PTKSSSRQNI PRCRNSITSA TDEQPHIGNY RLQKTIGKGN FAKVKLARHV LTGREVAVKI IDKTQLNPTS LQKLFREVRI MKILNHPNIV KLFEVIETEK TLYLVMEYAS GGEVFDYLVA HGRMKEKEAR AKFRQIVSAV QYCHQKYIVH RDLKAENLLL DGDMNIKIAD FGFSNEFTVG NKLDTFCGSP PYAAPELFQG KKYDGPEVDV WSLGVILYTL VSGSLPFDGQ NLKELRERVL RGKYRIPFYM STDCENLLKK LLVLNPIKRG SLEQIMKDRW MNVGHEEEEL KPYTEPDPDF NDTKRIDIMV TMGFARDEIN DALINQKYDE VMATYILLGR KPPEFEGGES LSSGNLCQRS RPSSDLNNST LQSPAHLKVQ RSISANQKQR RFSDHAGPSI PPAVSYTKRP QANSVESEQK EEWDKDVARK LGSTTVGSKS EMTASPLVGP ERKKSSTIPS NNVYSGGSMA RRNTYVCERT TDRYVALQNG KDSSLTEMSV SSISSAGSSV ASAVPSARPR HQKSMSTSGH PIKVTLPTIK DGSEAYRPGT TQRVPAASPS AHSISTATPD RTRFPRGSSS RSTFHGEQLR ERRSVAYNGP PASPSHETGA FAHARRGTST GIISKITSKF VRRDPSEGEA SGRTDTSRST SGEPKERDKE EGKDSKPRSL RFTWSMKTTS SMDPNDMMRE

IRKVLDANNC DYEQKERFLL FCVHGDARQD SLVQWEMEVC KLPRLSLNGV RFKRISGTSI AFKNIASKIA NELKL

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.

Product Details

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System
	(ALICE®):
	 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.
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:	MARK1
Alternative Name:	MARK1 (MARK1 Products)
Background:	Serine/threonine-protein kinase MARK1 (EC 2.7.11.1) (EC 2.7.11.26) (MAP/microtubule affinity-
	regulating kinase 1) (PAR1 homolog c) (Par-1c) (Par1c),FUNCTION: Serine/threonine-protein
	kinase (PubMed:23666762). Involved in cell polarity and microtubule dynamics regulation.
	Phosphorylates DCX, MAP2 and MAP4. Phosphorylates the microtubule-associated protein
	MAPT/TAU (PubMed:23666762). Involved in cell polarity by phosphorylating the microtubule-
	associated proteins MAP2, MAP4 and MAPT/TAU at KXGS motifs, causing detachment from
	microtubules, and their disassembly. Involved in the regulation of neuronal migration through
	its dual activities in regulating cellular polarity and microtubule dynamics, possibly by
	phosphorylating and regulating DCX. Also acts as a positive regulator of the Wnt signaling
	pathway, probably by mediating phosphorylation of dishevelled proteins (DVL1, DVL2 and/or
	DVL3). {ECO:0000269 PubMed:11433294, ECO:0000269 PubMed:17573348,
	ECO:0000269 PubMed:23666762}.
Molecular Weight:	89.0 kDa
UniProt:	Q9P0L2
Pathways:	SARS-CoV-2 Protein Interactome, The Global Phosphorylation Landscape of SARS-CoV-2
	Infection
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

Application Details

Application betails		
	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: Handling	For Research Use only	
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)	