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MAML1 Protein (AA 1-1020) (Strep Tag)



Overview

Quantity:	1 mg
Target:	MAML1
Protein Characteristics:	AA 1-1020
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MAML1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:

MVLPTCPMAE FALPRHSAVM ERLRRRIELC RRHHSTCEAR YEAVSPERLE LERQHTFALH
QRCIQAKAKR AGKHRQPPAA ATAPVAAPAP ASAPAAARLD AADGPEHGRP VAHLHDTVKR
SLDSAASPQN GDQPNGYGDL FPGHKKTRRE APLGVSVSAN GLPPASPLGQ PDKPSGGDTL
QTAGKHSLGL DPINKKCLAD SGIHLNGGSN SSEPFPLSLS KELKQEPVDD LPCMIAGAGG
SVAQSNLMPD LNLNEQEWKE LIEELNRSVP DEDMKDLFTE DFEEKKDPEP PGSATQTPLA
QDINIKTEFS PAAFEQEQLG SPQVRAGSAG QTFLGASSAP VGTDSPSLGS SQTLFHTTSQ
PGVDNSSPNL MPASAQAQSA QRALTSVVLP SQGPGGASEL SSAHQLQQIA AKQKREQMLQ
NPQQAAPAPG PGQLATWQQA GPSHSPLDVP YPMEKPASPS GYKQDFTNSK LLMMPGVNKS
SPRPGGPYLQ PSHSNLLSHQ SPSNLNQNPV NNQGSVLDYG NTKPLSHYKA DCGQGGPGSG
QNKPALMAYL PQQLPHLSNE QNSLFLMKPK SGNMPFRSLV PPGQEQNPSS VPVAAPAASV
GTQPTVSVAS THNSSPYLSS QQQAAVMKQH QLLLDQQKQR EQQQQQLQQQ QFLQRQHLLA
EQEKQQFQRH LTRPPPQYQD PTQSTFPQQV GQFTGPSAAV PGMNNLGPSN SSCPRVFPQP

GTLMSMGPGH APVSSLPSSS GQQDRGVAQF TGSQSLPQNS LYGMASGLAQ IVAQPPPQAT STHAHIPRQT NVGQNASTSA AYGQNSLGSA SLSQQHSKGT LPPGLTKPQV PRVSAAMGSQ NASWQHQGMP NLSSQTSGNS SVNPFTAAPS FHIQQAHLKL AGQQFSQAMP SRPMAPLSSA GAAGPMLPPV SAQQRNSAPA SAPPQAAPQQ GLPGLSPSGP ELGAFGQSPT SQMSGRPGLH CAQAYPVRTM GQELPFAYSG QPGSSGLSSV AGHTDLIDSL LKNRTSEEWI NELDDLLGSQ

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

Product Details 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. 2. 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: MAML1 Alternative Name: Maml1 (MAML1 Products) Background: Mastermind-like protein 1 (Mam-1), FUNCTION: Acts as a transcriptional coactivator for NOTCH proteins. Has been shown to amplify NOTCH-induced transcription of HES1. Enhances phosphorylation and proteolytic turnover of the NOTCH intracellular domain in the nucleus through interaction with CDK8. Binds to CREBBP/CBP which promotes nucleosome acetylation at NOTCH enhancers and activates transcription. Induces phosphorylation and localization of CREBBP to nuclear foci. Plays a role in hematopoietic development by regulating NOTCHmediated lymphoid cell fate decisions. {ECO:0000269|PubMed:15019995,

	ECO:0000269 PubMed:15187027}.		
Molecular Weight:	107.7 kDa		
UniProt:	Q6T264		
Pathways:	Notch Signaling, Regulation of Muscle Cell Differentiation, Skeletal Muscle Fiber Development		

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.

Application Details

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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)