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Datasheet for ABIN3093741

MAST1 Protein (AA 1-1570) (Strep Tag)

1 Image

Overview

Quantity:	1 mg
Target:	MAST1
Protein Characteristics:	AA 1-1570
Origin:	Human
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MAST1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence: MSDSLWTALS NFSMPSPGG SMFRRTKSCR TSNRKSILIT STSPTLPRPH SPLPGHLGSS
PLDSPRNFS NTPAHFSFAS SRRADGRRWS LASLPSSGYG TNTPSSTVSS SCSSQERLHQ
LPYQPTVDEL HFLSKHFGST ESITDEDGGR RSPAVRPRSR SLSPGRSPSS YDNEIVMMNH
VYKERFPKAT AQMEEKLRDF TRAYEPDSVL PLADGVLSFI HHQIELARD CLTKSRDGLI
TTVYFYELQE NLEKLLQDAY ERSSELEVAF VTQLVKLLI IISRPALLE CLEFNPEEFY
HLLAAEGHA KEGHLVKTDI PRYIIRQLGL TRDPFPDVVH LEEQDSGGSN TPEQDDLSEG
RSSKAKKPPG ENDFDTIKLI SNGAYGAVYL VRHRDTRQRF AMKKINKQNL ILRNQIQAF
VERDILTFAE NPFVVGMFCS FETRRHLCMV MEYVEGGDCA TLLKNIGALP VEMARMYFAE
TVLALEYLHN YGIVHRDLKP DNLLITSMGH IKLTDGFLSK MGLMSLTNNL YEGHIEKDAR
EFLDKQVCGT PEYIAPEVIL RQGYGKPDW WAMGIILYEF LVGCVPPFGD TPEELFGQVI
SDDILWPEGD EALPTEAQLL ISSLLQTNPL VRLGAGGAFE VKQHSFFRDL DWTGLLRQKA
EFIPHLESED DTSYFDTRSD RYHHVNSYDE DDTTEEEPVE IRQFSSCSPPR FSKVYSSMEQ

LSQHEPKTPV AAAGSSKREP STKGPEEKVA GKREGLGGLT LREKTWRGGS PEIKRFSASE
ASFLEGEASP PLGARRRFSA LLEPSRFSAP QEDEDEARLR RPPRPSSDPA GSLDARAPKE
ETQEGGTSSA GDSEATDRPR PGDLCPPSKD GDASGPRATN DLVLRRARHQ QMSGDVAVEK
RPSRTGGKVI KSASATALSV MIPAVDPHGS SPLASPMSPR SLSSNPSSRD SSPSRDYSPA
VSGLRSPITI QRSGKKGFT LRAIRVYMGD TDVYSVHHIV WHVEEGGPAQ EAGLCAGDLI
THVNGEPVHG MVHPEVVELI LKSGNKVAVT TTPFENTSIR IGPARRSSYK AKMARRNKRP
SAKEGQESKK RSSLFRKITK QSNLLHTSRS LSSLNRLSS SDSLPGSPH GLPARSPHSH
YRSTPDSAYL GASSQSSSPA SSTPNPASS ASHHIRPSTL HGLSPKLHRQ YRSARCKSAG
NIPLSPLAHT PSPTQASPPP LPGHTVGSSH TTQSFPAKLH SSPPVVRPRP KSAEPPRSPL
LKRVSQAEKL GASLSADKKG ALRKHSLEVG HPDFRKDFHG ELALHSLAES DGETPPVEGL
GAPRQVAVRR LGRQESPLSL GADPLLPEGA SRPPVSSKEK ESPGGAEACT PPRATTPGGR
TLERDVGCTR HQSVQTEDGT GGMARAVAKA ALSPVQEHET GRRSSSGEAG TPLVPIVVEP
ARPGAKAVVP QPLGADSKGL QEPAPLAPSV PEAPRGRERW VLEVVEERTT LSGPRSKPAS
PKLSPEPQTP SLAPAKCSAP SSAVTPVPPA SLLGSGTKPQ VGLTSRCPAE AVPPAGLTKK
GVSSPAPPGP

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 post-

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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 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.

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): <ol style="list-style-type: none">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)
Grade:	Crystallography grade

Target Details

Target:	MAST1
Alternative Name:	MAST1 (MAST1 Products)
Background:	Microtubule-associated serine/threonine-protein kinase 1 (EC 2.7.11.1) (Syntrophin-associated serine/threonine-protein kinase),FUNCTION: Microtubule-associated protein essential for correct brain development (PubMed:30449657). Appears to link the dystrophin/utrophin network with microtubule filaments via the syntrophins. Phosphorylation of DMD or UTRN may modulate their affinities for associated proteins (By similarity). {ECO:0000250 UniProtKB:Q9R1L5, ECO:0000269 PubMed:30449657}.

Target Details

Molecular Weight: 170.7 kDa

UniProt: [Q9Y2H9](#)

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 Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process