

Datasheet for ABIN3136603 MTA1 Protein (AA 1-715) (Strep Tag)



Overview

Quantity:	250 μg
Target:	MTA1
Protein Characteristics:	AA 1-715
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MTA1 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details	
Brand:	AliCE®
Sequence:	MAANMYRVGD YVYFENSSSN PYLIRRIEEL NKTANGNVEA KVVCFYRRRD ISSSLIALAD
	KHATLSVCYR AGPGADTGEE GEVEEEVENP EMVDLPEKLK HQLRHRELFL SRQLESLPAT
	HIRGKCSVTL LNETESLKSY LEREDFFFYS LVYDPQQKTL LADKGEIRVG NRYQADITDL
	LKEGEEDGRD QSKLETKVWE AHNPLVDKQI DQFLVVARSV GTFARALDCS SSVRQPSLHM
	SAAAASRDIT LFHAMDTLHK NIYDISKAIS ALVPQGGPVL CRDEMEEWSA SEANLFEEAL
	EKYGKDFTDI QQDFLPWKSL TSIIEYYYMW KTTDRYVQQK RLKAAEAESK LKQVYIPNYN
	KPNPNQISAS SVKATVVNGT GTPGQSPGAG RACESCYTTQ SYQWYSWGPP NMQCRLCASC
	WTYWKKYGGL KMPTRLDGER PGPNRNNMSP HGIPARSSGS PKFAMKTRQA FYLHTTKLTR
	IARRLCREIL RPWHAARHPY MPINSAAIKA ECTARLPEAS QSPLVLKQVV RKPLEAVLRY
	LETHPRPPKP DPVKSSSSVL SSLTPAKSAP VINNGSPTIL GKRSYEQHNG VDGNMKKRLL
	MPSRGLANHG QTRHMGPSRN LLLNGKSYPT KVRLIRGGSL PPVKRRRMNW IDAPDDVFYM

ATEETRKIRK LLSSSETKRA ARRPYKPIAL RQSQALPLRP PPPAPVNDEP IVIED

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 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 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®).

Product Details

Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details	
Target:	MTA1
Alternative Name:	Mta1 (MTA1 Products)
Background:	Metastasis-associated protein MTA1,FUNCTION: Transcriptional coregulator which can act as
	both a transcriptional corepressor and coactivator (PubMed:20682799, PubMed:20071335).
	Acts as a component of the histone deacetylase NuRD complex which participates in the
	remodeling of chromatin (By similarity). In the NuRD complex, regulates transcription of its
	targets by modifying the acetylation status of the target chromatin and cofactor accessibility to
	the target DNA (PubMed:17671180). In conjunction with other components of NuRD, acts as a
	transcriptional corepressor of BRCA1, ESR1, TFF1 and CDKN1A (PubMed:20071335,
	PubMed:21965678). Acts as a transcriptional coactivator of BCAS3, PAX5 and SUMO2,
	independent of the NuRD complex (PubMed:17671180, PubMed:21965678). Stimulates the
	expression of WNT1 by inhibiting the expression of its transcriptional corepressor SIX3
	(PubMed:20682799). Regulates p53-dependent and -independent DNA repair processes
	following genotoxic stress (PubMed:20071335, PubMed:19805145). Regulates the stability and
	function of p53/TP53 by inhibiting its ubiquitination by COP1 and MDM2 thereby regulating the
	p53-dependent DNA repair (PubMed:19837670, PubMed:19805145). Plays a role in the
	regulation of the circadian clock and is essential for the generation and maintenance of
	circadian rhythms under constant light and for normal entrainment of behavior to light-dark
	(LD) cycles (PubMed:24089055). Positively regulates the CLOCK-BMAL1 heterodimer mediated
	transcriptional activation of its own transcription and the transcription of CRY1
	(PubMed:24089055). Regulates deacetylation of BMAL1 by regulating SIRT1 expression,
	resulting in derepressing CRY1-mediated transcription repression (PubMed:24089055). With
	Tfcp2l1, promotes establishment and maintenance of pluripotency in embryonic stem cells
	(ESCs) and inhibits endoderm differentiation (PubMed:28982712).
	{ECO:0000250 UniProtKB:Q13330, ECO:0000269 PubMed:17671180,
	ECO:0000269 PubMed:19805145, ECO:0000269 PubMed:19837670,
	ECO:0000269 PubMed:20071335, ECO:0000269 PubMed:20682799,
	ECO:0000269 PubMed:21965678, ECO:0000269 PubMed:24089055,
	ECO:0000269 PubMed:28982712}.
Molecular Weight:	80.8 kDa

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Target Details

Target Details	
UniProt:	Q8K4B0
Pathways:	Chromatin Binding
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: Handling	For Research Use only
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