

Datasheet for ABIN3093968

MYSM1 Protein (AA 1-828) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	MYSM1
Protein Characteristics:	AA 1-828
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MYSM1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	<p>MAAEEADVDI EGDVVAAGA QPGSGENTAS VLQKDHYLDS SWRTENGLIP WTL DNTISEE</p> <p>NRAVIEKMLL EEEYYLSKKS QPEKVWLDQK EDDKKYMKSL KKTAKIMVHS PTKPASYSVK</p> <p>WTIEEKELFE QGLAKFGRRW TKISKLIGSR TVLQVKSYAR QYFKNKVKCG LDKETPNQKT</p> <p>GHNLQVKNED KGTKAWTPSC LRGRADPNLN AVKIEKLSDD EEVDITDEVD ELSSQTPQKN</p> <p>SSSDLLLDLP NSKMHE TNQG EFITSDSQEA LFSKSSRGCL QNEKQDETLS SSEITLWTEK</p> <p>QSNQDKKSIE LNDQKFNELI KNCNKH DGRG IVDARQLPS PEPCEIQKNL NDNEMLFHSC</p> <p>QMVEESHEEE ELKPPEQEIE IDRNIIQEEE KQAIPEFFEG RQAKTPERYL KIRNYILDQW</p> <p>EICKPKYLNK TSVRPGLKNC GDVNCIGRIH TYLELIGAIN FGCEQAVYNR PQTVDKVRIR</p> <p>DRKDAVEAYQ LAQRLQSMRT RRRRV RDPWG NWCDAKDLEG QTFEHL SAE LAKRREEEEKG</p> <p>RPVKSLKVPR PTKSSFDPFQ LIPC NFFSEE KQEPFQVKVA SEALLIMDLH AHVSM AEVIG</p> <p>LLGGRYSEVD KVVEVCAAEP CNSLSTGLQC EMDPVSQTQA SETLAVRGFS VIGWYHSHPA</p>

FDPNP SLRDI DTQAKYQSYF SRGGAKFIGM IVSPYNRNNP LPYSQITCLV ISEEISPDGS
YRLPYKFEVQ QMLEEPQWGL VFEKTRWIE KYRLSHSSVP MDKIFRRDSD LTCLQKLLC
MRKTL SKVTN CFMAEEFLTE IENLFLSNYK SNQENGVTTEE NCTKELLM

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

Product Details

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

Target Details

Target:	MYSM1
Alternative Name:	MYSM1 (MYSM1 Products)
Background:	<p>Deubiquitinase MYSM1 (2A-DUB) (EC 3.4.19.-) (Myb-like, SWIRM and MPN domain-containing protein 1),FUNCTION: Metalloprotease with deubiquitinase activity that plays important regulator roles in hematopoietic stem cell function, blood cell production and immune response (PubMed:24062447, PubMed:26220525, PubMed:28115216). Participates in the normal programming of B-cell responses to antigen after the maturation process (By similarity). Within the cytoplasm, plays critical roles in the repression of innate immunity and autoimmunity (PubMed:33086059). Removes 'Lys-63'-linked polyubiquitins from TRAF3 and TRAF6 complexes (By similarity). Attenuates NOD2-mediated inflammation and tissue injury by promoting 'Lys-63'-linked deubiquitination of RIPK2 component (By similarity). Suppresses the CGAS-STING1 signaling pathway by cleaving STING1 'Lys-63'-linked ubiquitin chains (PubMed:33086059). In the nucleus, acts as a hematopoietic transcription regulator derepressing a range of genes essential for normal stem cell differentiation including EBF1 and PAX5 in B-cells, ID2 in NK-cell progenitor or FLT3 in dendritic cell precursors (PubMed:24062447). Deubiquitinates monoubiquitinated histone H2A, a specific tag for epigenetic transcriptional repression, leading to dissociation of histone H1 from the nucleosome (PubMed:17707232). {ECO:0000250 UniProtKB:Q69Z66, ECO:0000269 PubMed:17707232, ECO:0000269 PubMed:22169041, ECO:0000269 PubMed:24062447, ECO:0000269 PubMed:26220525, ECO:0000269 PubMed:28115216, ECO:0000269 PubMed:33086059}.</p>
Molecular Weight:	95.0 kDa
UniProt:	Q5VVJ2
Pathways:	Chromatin Binding

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies
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Application Details

as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Comment:

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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.

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