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Datasheet for ABIN3135793

MSL1 Protein (AA 1-616) (Strep Tag)

Overview

| | |
|-------------------------------|---|
| Quantity: | 1 mg |
| Target: | MSL1 |
| Protein Characteristics: | AA 1-616 |
| Origin: | Mouse |
| Source: | Tobacco (Nicotiana tabacum) |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This MSL1 protein is labelled with Strep Tag. |
| Application: | ELISA, SDS-PAGE (SDS), Western Blotting (WB) |

Product Details

Sequence: MTMRSVFKA AAAPAGGNPE QRLDYERAAA LGGPEDESGA AEAHFLPRHR KLKEPGPPLA
SSQGGSPSPS PAGCGGGKGR GLLLPGAAP GQQEESWGGG VPLPCPPPAT KQAGIGGEPV
AAGAGCSPRP KYQAVLPIQT GSIVVAAAKE PTPWAGDKGG AAPPAATASD PAGPPPLPLP
GPPPLAPTAT AGTLAASEGR WKSIRKSPLG GGGGSGASSQ AACLKQILLL QLDLIEQQQ
QLQAKEKEIE ELKSERDTLL ARIERMERM QLVKRDNEKE RHKLLQGYEP EEREEAELSE
KIKLERQPEL CETSQALPSK PFSCGRSGKG HKRKTPFGNT ERKTPVKKLA PEFKVKTKT
PKHSPIKEEP CGSISSETVCK RELRSQETPE KPRSSVDTPP RLSTPQKGPS THPKEKAFSS
EMEDLPYLST TEMYLGRWHQ PPPSPLPRE SSPKKEETVA RCLMPSSVAG ETSVLAVPSW
RDHSVEPLRD PNPSDILENL DDSVFSKRHA KLELDEKRRK RWDIQRIREQ RILQRLQLRM
YKKKGIQESE PEVTSFFPEP DDVESLLITP FLPVVAFGRP LPKLAPQNF LPWLDERSRC
RLEIQKKHTP HRTCRK

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 System (ALiCE®).

Purity:

> 80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Target Details

Target: MSL1

Alternative Name: Msl1 ([MSL1 Products](#))

Background: Male-specific lethal 1 homolog (MSL-1) (Hampin) (Male-specific lethal 1-like 1) (MSL1-like 1) (Male-specific lethal-1 homolog 1),FUNCTION: Component of histone acetyltransferase complex responsible for the majority of histone H4 acetylation at 'Lys-16' (H4K16ac) which is implicated in the formation of higher-order chromatin structure (PubMed:24913909). Greatly enhances MSL2 E3 ubiquitin ligase activity, promoting monoubiquitination of histone H2B at 'Lys-35' (H2BK34Ub) (By similarity). This modification in turn stimulates histone H3 methylation at 'Lys-5' (H3K4me) and 'Lys-80' (H3K79me) and leads to gene activation, including that of HOXA9 and MEIS1 (By similarity). In the MSL complex, acts as a scaffold to tether MSL3 and KAT8 together for enzymatic activity regulation (PubMed:21217699). Isoform 2, isoform 3, isoform 4 and isoform 5 can mediate histone H4 acetylation at 'Lys-16' (H4K16ac) (PubMed:24913909). {ECO:0000250|UniProtKB:Q68DK7, ECO:0000269|PubMed:21217699, ECO:0000269|PubMed:24913909}.

Molecular Weight: 67.3 kDa

UniProt: [Q6PDM1](#)

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

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|------------------|--|
| 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) |