

Datasheet for ABIN7554628

## MSL1 Protein (AA 1-614) (His tag)



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### Overview

Quantity:	1 mg
Target:	MSL1
Protein Characteristics:	AA 1-614
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MSL1 protein is labelled with His tag.

### Product Details

Purpose:	Custom-made recombinant MSL1 Protein expressed in mammalian cells.
Sequence:	<p>MTMRSVFKK AAPAGGNPE QRLDYERAAA LGGPEDEPGA AEAHFLPRHR KLKEGPPPLA</p> <p>SSQGGSPAPS PAGCGGKGRG LLLPAGAAPG QQEESWGGSV PLPCPPPATK QAGIGGEPAA</p> <p>AGAGCSRPK YQAVLPIQTG SLVAAAKEPT PWAGDKGGAA SPAATASDPA GPPPLPLPGP</p> <p>PPLAPTATAG TLAASEGRWK SMRKSPLGGG GGSGASSQAA CLKQILLQL DLIEQQQQQL</p> <p>QAKEKEIEEL KSERDTLLAR IERMERRMQL VKKDNEKERH KLFQGYETEE REETELSEKI</p> <p>KLECQPELSE TSQTLPPKPF SCGRSGKGHK RKSPFGSTER KTPVKKLAPF FSKVKTCTPK</p> <p>HSPKKEPCG SLSETVCKRE LRSQETPEKP RSSVDTPPRL STPQKGPSTH PKEAFSSEI</p> <p>EDLPYLSTTE MYLCRWHQPP PSPLPLRESS PKKEETVARC LMPSSVAGET SVLAVPSWRD</p> <p>HSVEPLRDPN PSDLLENLDD SVFSKRHAKL ELDEKRRKRW DIQRIREQRI LQRLQLRMYK</p> <p>KKGIQSEPE VTSFFPEPDD VESLMITPFL PVVAFGRPLP KLTPQNFELP WLDERSRCRL</p> <p>EIQKKQTPHR TCRK <b>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make</b></p>

**another tag necessary. In case you have a special request, please contact us.**

**Specificity:** If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

**Characteristics:** **Key Benefits:**

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

**Purity:** > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

**Grade:** custom-made

## Target Details

**Target:** MSL1

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

**Background:** Male-specific lethal 1 homolog (MSL-1) (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:16227571). Greatly enhances MSL2 E3 ubiquitin ligase activity, promoting monoubiquitination of histone H2B at 'Lys-34' (H2BK34Ub) (PubMed:21726816). This modification in turn stimulates histone H3 methylation at 'Lys-4' (H3K4me) and 'Lys-79' (H3K79me) and leads to gene activation, including that of HOXA9 and MEIS1 (PubMed:21726816). In the MSL complex, acts as a scaffold to tether MSL3 and KAT8 together for enzymatic activity regulation (PubMed:22547026).  
{ECO:0000269|PubMed:16227571, ECO:0000269|PubMed:21726816,

## Target Details

ECO:0000269|PubMed:22547026}.

Molecular Weight: 67.1 kDa

UniProt: [Q68DK7](#)

## Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

## Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months