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Datasheet for ABIN7558383  
**ZMPSTE24 Protein (AA 1-475) (His tag)**

## Overview

Quantity:	1 mg
Target:	ZMPSTE24 (Zmpste24)
Protein Characteristics:	AA 1-475
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ZMPSTE24 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant Zmpste24 Protein expressed in mammalian cells.
Sequence:	MGMWASVDAM WDFPAEKRF GAVLLFSWTV YLWETFLAQR QRRIYKTTTR VPAALEQIMD SDTFEKSRLY QLDKSTFSFW SGLYSEVEGT FILLFGGIPY LWRLSGQFCS SAGFGPEYEI IQSLVFLLLA TLFSALTGLP WSLYNTFVIE EKHGFNHQTL EFFMKDAIKK FIVTQCILLP VSALLLYIHK IGGDYFFIYA WLFTLVVSLV LVTIYADYIA PLFDKFTPLP EGKLGQIEV MAKSIDFPLT KVVYVEGSKR SSSHNAYFYG FFKNKRIVLF DTLLEEYSVP NKDNQEESGM EARNEGEGDS EEVKAKVKNK KQGCKNEEVL AVLGHELGHW KLGHTVKNII ISQMNSFLCF FLFAVLIGRR ELFAAFGFYD SQPTLIGLLI IFQFIFSPYN EVLSFCLTVL SRRFEFQADA FAKKLGKAKD LYSALIKLNK DNLGFPVSDW LFSTWHYSHP PLLERLQALK NAKQD <b>Sequence without tag. The proposed Purification-Tag is based on experiences 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.</b>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different

## Product Details

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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

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### Target:

ZMPSTE24 (Zmpste24)

### Alternative Name:

Zmpste24 ([Zmpste24 Products](#))

### Background:

CAAX prenyl protease 1 homolog (EC 3.4.24.84) (Farnesylated proteins-converting enzyme 1) (FACE-1) (Prenyl protein-specific endoprotease 1) (Zinc metalloproteinase Ste24 homolog),FUNCTION: Transmembrane metalloprotease whose catalytic activity is critical for processing lamin A/LMNA on the inner nuclear membrane and clearing clogged translocons on the endoplasmic reticulum (PubMed:11923874, PubMed:12235369, PubMed:17652517, PubMed:27462105). Proteolytically removes the C-terminal three residues of farnesylated proteins (PubMed:11399759, PubMed:17652517). Plays also an antiviral role independently of its protease activity by restricting enveloped RNA and DNA viruses (PubMed:28246125). Mechanistically, controls IFITM antiviral pathway to hinder viruses from breaching the endosomal barrier by modulating membrane fluidity (PubMed:28246125). {ECO:0000269|PubMed:11399759, ECO:0000269|PubMed:11923874, ECO:0000269|PubMed:12235369, ECO:0000269|PubMed:17652517,

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ECO:0000269|PubMed:27462105, ECO:0000269|PubMed:28246125}.

Molecular Weight: 54.7 kDa

UniProt: [Q80W54](#)

## Application Details

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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

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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