

## Product datasheet

# Recombinant Human PSME3 protein (His tag) ab217811

1 Image

## Description

- **Product name**

Recombinant Human PSME3 protein (His tag)

- **Purity**

> 95 % SDS-PAGE.

- **Endotoxin level**

< 1.000 Eu/µg

- **Expression system**

Escherichia coli

- **Accession**

[P61289](#)

- **Protein length**

Full length protein

- **Animal free**

No

- **Nature**

Recombinant

- - **Species**

Human

- - **Sequence**

MASLLKVDQE VKLKVDSFRE RITSEAEDLV ANFFPKKLE LDSFLKEPIL NIHDLTQIHS DMNLPVPDPI LLTNSHDGLD  
GPTYKKRRRLD ECEEAFQGTK VFVMPNGMLK SNQQLVDIIE KVKPEIRLLI EKCNTVKMWV QLLIPRIEDG NNFGVSIQEE  
TVAELRTVES EAASYLDQIS RYYITRAKLV SKIAKYPHVE DYRRTVTEID EKEYISLRLLI ISELRNQYVT LHDMLKNIE  
KIKRPRSSNA ETLY

- - **Predicted molecular weight**

30 kDa including tags

- - **Amino acids**

1 to 254

- - **Tags**

His tag N-Terminus

- **Additional sequence information**

Accession # NP\_00578

## Specifications

Our [Abpromise guarantee](#) covers the use of **ab217811** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

- Applications

SDS-PAGE

- **Form**

Lyophilized

## Preparation and Storage

- **Stability and Storage**

Shipped at 4°C. Store at -80°C.

pH: 7.4

Constituents: 5% Trehalose, 1.16% Sodium chloride, 0.61% Tris

Lyophilized from 0.22 µm filtered solution.

5-10% trehalose is commonly used for freeze drying, and after reconstitution, the trehalose is mostly about 3-5%

- Reconstitution

It is recommended to reconstitute the lyophilized product in 100 µL sterile deionized water to a final concentration of 1 mg/mL. Solubilize for 30 to 60 minutes at room temperature with occasional gentle mixing. Carrier protein (0.1% HSA or BSA) is strongly recommended for further dilution and long term storage. Storage: In lyophilized state for 1 year (4°C); After reconstitution under sterile conditions for 3 months (-70°C).

## General Info

- **Function**

Subunit of the 11S REG-gamma (also called PA28-gamma) proteasome regulator, a donut-shaped homoheptamer which associates with the proteasome. 11S REG-gamma activates the trypsin-like catalytic subunit of the proteasome but inhibits the chymotrypsin-like and postglutamyl-preferring (PGPH) subunits. Facilitates the MDM2-p53/TP53 interaction which promotes ubiquitination- and MDM2-dependent proteasomal degradation of p53/TP53, limiting its accumulation and resulting in inhibited apoptosis after DNA damage. May also be involved in cell cycle regulation.

- **Sequence similarities**

Belongs to the PA28 family.

- **Domain**

The C-terminal sequences affect heptamer stability and proteasome affinity.

- **Post-translational modifications**

Phosphorylated by MAP3K3.

- **Cellular localization**

Nucleus. Cytoplasm. Localizes to the cytoplasm during mitosis following nuclear envelope breakdown at this distinct stage of the cell cycle which allows its interaction with MAP3K3 kinase.

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## Images

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SDS-PAGE - Recombinant Human PSME3 protein (His tag) (ab217811)

The purity of ab217811 was determined by DTT reduced SDS-PAGE and staining overnight with Coomassie Blue. Protein migrates as 28-33 kDa.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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