

AR50127PU-N**Human PSME3 (1-254, His-tag) - Purified****Alternate names:**

11S regulator complex subunit gamma, Activator of multicatalytic protease subunit 3, Ki nuclear autoantigen, PA28g, PA28gamma, Proteasome activator 28 subunit gamma, Proteasome activator complex subunit 3, REG-gamma

Quantity:

0.25 mg

Concentration:

0.5mg/ml (determined by Bradford assay)

Background:

PSME3 (Proteasome activator complex subunit 3) belongs to the PA28 family. The 26S proteasome is a multicatalytic proteinase complex with a highly ordered structure composed of 2 complexes, a 20S core and a 19S regulator. Proteasomes are distributed throughout eukaryotic cells at a high concentration and cleave peptides in an ATP/ubiquitin-dependent process in a non-lysosomal pathway. PSME3 activates the trypsin-like catalytic subunit of the proteasome but inhibits the chymotrypsin-like and postglutamyl-preferring (PGPH) subunits. PSEM3 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.

Uniprot ID:

[P61289](#)

NCBI:

[NP_005780](#)

GenElD:

[10197](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >90% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 40% glycerol, 200mM NaCl

Description:

Recombinant human PSME3 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

MGSSHHHHHH SGLVPRGSH MASLLKVDQE VKLKVDSFRE RITSEAEDLV ANFFPKKLLLE
LDSFLKEPIL NIHDLTQIHS DMNLPVPDPI LLTNSHDGLD GPTYKKRRLD ECCEAFQGTK
VFVMPNGMLK SNQQLVDIIE KVKPEIRLLI EKCVTKMWV QLLIPRIEDG NNFVSVIQEE
TVaelrtves EAASYLDQIS RYYITRAKLV SKIAKYPHVE DYRRVTVEID EKEYISLRLLI
ISELRNQYVT LHMILKNIE KIKRPRSSNA ETLV

Molecular weight: 31.7 kDa (274aa), confirmed by MALDI-TOF

Storage:

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

Wilk S., et al. (2000) Arch. Biochem. Biophys. 383:265-271 Zhang Z., et al. (2008) EMBO J. 27:852-864

Pictures:

