

## PSME3 Human

**Description:** PSME3 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 274 amino acids (1-254 a.a.) and having a molecular mass of 31.7kDa. PSME3 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Catalog #: PRPS-994

For research use only.

**Synonyms:** Proteasome (prosome, macropain) activator subunit 3 (PA28 gamma; Ki), PA28G, Ki, Ki nuclear autoantigen, PA28-gamma, REG-GAMMA, Activator of multicatalytic protease subunit 3, Proteasome activator 28 subunit gamma, 11S regulator complex subunit gamma, PA2

**Source:** E.coli.

**Physical Appearance:** Sterile Filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MASLLKVDQE VKLKVDSFRE  
RITSEAEDLV ANFFPKKLE LDSFLKEPIL NIHDLTQIHS DMNLPVPDPI LLTNSHDGLD  
GPTYKRRRLD ECEAFQGTK VFVMPNGMLK SNQQLVDIIE KVKPEIRLLI EKCNTVKMWV  
QLLIPRIEDG NNFVSIQEE TVAELRTVES EAASYLDQIS RYYITRAKLV SKIAKYPHVE  
DYRRTVTEID EK

**Purity:** Greater than 90% as determined by SDS-PAGE.

**Formulation:**

PSME3 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 200mM NaCl, 2mM DTT and 40% glycerol.

**Stability:**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

PSME3 is a member of the PA28 family. The 26S proteasome is an extremely organized multicatalytic proteinase complex composed of 2 complexes, a 20S core and a 19S regulator. Proteasomes are spread all over the eukaryotic cells in large quantities and cleave peptides in an ATP/ubiquitin-dependent process in a non-lysosomal pathway. PSME3 stimulates the trypsin-like catalytic subunit of the proteasome and inhibits the chymotrypsin-like and postglutamyl-preferring (PGPH) subunits. PSEM3 enables the MDM2-p53/TP53 collaboration that encourages ubiquitination- and MDM2-dependent proteasomal degradation of p53/TP53, restricting its growth and causing inhibited apoptosis after DNA damage.

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