

**PSEM3, 1-254aa, Human, His tag, E.coli**

**Cat.NO.: TP03556**

---

3th Edition

**Synonyms:**Proteasome activator complex subunit 3 isoform 1, Ki, PA28-gamma, PA28G, REG-GAMMA.

**Description:**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.

**Form:**Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 40% glycerol, 200mM NaCl

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

**Sequences:**

MGSSHHHHHSSGLVPRGSHMASLLKVDQEVKLVDSFRERITSEAEDLVANFFPKLLELDSFLKEPILNIHDLTQI  
HSDMNLVPDPILLTNSHDGLDGPTYKKRRRLDECEEFQGTKVFMVMPNGMLKSNQQLVDIIEKVKPEIRLLIEKCNTV  
KMWVQLLIPRIEDGNNFGVSIQEETVAELRTVESEAASYLDQISRYITRAKLVSKIAPHVEDYRRTVTEIDEKEYI  
SLRLIISELRNQYVTLHDMILKNIEKIKRPRSSNAETLY

**Purity:**> 95% by HPLC

**Concentration:**0.5mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.