

## PSME1 Human

**Description:** PSME1 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 269 amino acids (1-249a.a.) and having a molecular mass of 30.8kDa. PSME1 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

**Catalog #:** PRPS-273

For research use only.

**Synonyms:** REG-alpha, PA28alpha, PA28a, Proteasome Activator subunit-1, Proteasome Activator 28 subunit alpha, Interferon gamma up-regulated I-5111 protein.

**Source:** Escherichia Coli.

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

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MAMLRVQPEA QAKVDVFRED  
LCTKTENLLG SYFPKKISEL DAFLKEPALN EANLSNLKAP LDIPVPDPVK EKEKEERKKQ  
QEKEDKDEKK KGEDEDKGPP CGPVNCNEKI VLLQRLKPE IKDVIEQLNL VTTWLQLQIP  
RIEDGNNFGV AVQEKVFLM TSLHTKLEGF HTQISKYFSE RGDVTKAAK QPHVGDYRQL  
VHELDEAEYR DI

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

### Formulation:

The PSME1 protein solution (0.5mg/1ml) is formulated in 20mM Tris-HCl buffer (pH8.0) 0.1M NaCl and 10% glycerol.

### Usage:

NeoBiolabs 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:

PSME1 is an interferon gamma (IFNG) inducible proteasome activator essential for presentation of certain major histocompatibility (MHC) class I antigens. The PSME1 complex is an alternate proteasome activator which operates with no use of ubiquitin. The PSME1 complex is made out of two homologous subunits, alpha and beta, that functions in similar catalytic properties and is connected to a hexameric ring.

### Storage:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Please avoid freeze thaw cycles.

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