

## PSMD9 Human

**Description:** PSMD9 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 246 amino acids (1-223) and having a molecular mass of 27.1kDa. PSMD9 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

**Catalog #:** ENPS-673

For research use only.

**Synonyms:** p27, Rpn4, 26S proteasome non-ATPase regulatory subunit 9, 26S proteasome regulatory subunit p27, PSMD9.

**Source:** Escherichia Coli.

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

**Amino Acid Sequence:** MGSSHHHHH SSGLVPRGSH MGSMSEEAR QSGGSSQAGV  
VTVSDVQELM RRKEEIAQI KANYDVLESQ KGIGMNEPLV DCEGYPRSDV DLYQVRTARH  
NIICLQNDHK AVMKQVEEAL HQLHARDKEK QARDMAEAHK EAMSRKLGQS ESQGPPRAFA  
KVNSISPGSP ASIAGLQVDD EIVEFGSVNT QNFQSLHNIG SVVQHSEGKP LNVTVIRRG  
KHQLRLVPTR WA

**Purity:** Greater than 90.0% as determined by SDS-PAGE.

### Formulation:

The PSMD9 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 10% glycerol and 1mM DTT.

### 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:

PSMD9 is a multicatalytic proteinase complex with a highly ordered structure composed of 2 complexes, a 20S core and a 19S regulator. PSMD9 acts as a chaperone through the assembly of the 26S proteasome, specifically of the base subcomplex of the PA700/19S regulatory complex (RC). During the base subcomplex compilation, PSMD9 is part of an intermediate PSMD9:PSMC6:PSMC3 module, also called modulator trimer complex. PSMD9 is released during the further base assembly process.

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