

**PSMA5, 1-241aa, Human, His tag, E.coli**

**Cat.NO.: TP03563**

3th Edition

**Synonyms:**Proteasome subunit alpha type-5, PSC5, ZETA.

**Description:**PSMA5 (Proteasome subunit alpha type-5) belongs to the peptidase T1A family. The proteasome is a multicatalytic proteinase complex which is characterized by its ability to cleave peptides with Arg, Phe, Tyr, Leu, and Glu adjacent to the leaving group at neutral or slightly basic pH. Proteasomes are distributed throughout eukaryotic cells at a high concentration and cleave peptides in an ATP/ubiquitin-dependent process in a non-lysosomal pathway.

**Form:**Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 10% glycerol, 100mM NaCl

**Molecular Weight:**30.5kDa (277aa), confirmed by MALDI-TOF

**Sequences:**

MRGSHHHHHHGMASMTGGQQMGRDLYDDDDKDRWGSMLTRSEYDRGVNTFSPEGRLFQVEYAIEAIKLGSTAI  
GIQTSEGVCLAVEKRITSPLEPSSIEKIVEIDAHIGCAMSGLIADAKTLIDKARVETQNHWFYNETMTVESVTQAVS  
NLALQFGEEDADPGAMSRPFGVALLFGGVDEKGPQLFHMDPSGTFVQCDARAIGSASEGAQSSLQEVYHKSMTL  
KEAIKSSLILKQVMEEKLNATNIELATVQPGQNFHMFTKEELEEVIKDI

**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.