

## PSMA6 Human

**Description:** PSMA6 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 270 amino acids (1-246 a.a.) and having a molecular mass of 29.9kDa. PSMA6 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

**Catalog #:** ENPS-205

For research use only.

**Synonyms:** Proteasome (prosome, macropain) subunit alpha type 6, PROS27, p27K, IOTA, Macropain iota chain, Multicatalytic endopeptidase complex iota chain, Proteasome iota chain, 27 kDa prosomal protein.

**Source:** Escherichia Coli.

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

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MGSMSRGSS AGFDRHITIF  
SPEGRLYQVE YAFKAINQGG LTSVAVRGKD CAVIVTQKKV PDKLLDSSTVTHLFKITENI  
GCVMTGMTAD SRSQVQRARY EAANWKYKYG YEIPVDMLCK RIADISQVYT QNAEMRPLGC  
CMILIGIDEE QGPQVYKCDP AGYYCGFKAT AAGVKQTEST SFLEKKVKKK FDWTFEQTVE  
TAITCLSTVL SID

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

**Formulation:**

PSMA6 protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 100mM NaCl, 1mM 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:**

PSMA6 belongs to the peptidase T1A family, which is a 20S core alpha subunit. The proteasome is a multicatalytic proteinase complex with an extremely organized ring-shaped 20S core structure. The core structure consists of 4 rings of 28 non-identical subunits; 2 rings consist of 7 alpha subunits and 2 rings consist of 7 beta subunits. PSMA6 is spread all over eukaryotic cells in large quantities and cleave peptides in an ATP/ubiquitin-dependent procedure in a non-lysosomal pathway.

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