

## PSMB5 Human

**Description:** PSMB5 Human Recombinant fused with a 36 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 241 amino acids (60-263 a.a.) and having a molecular mass of 26.7kDa. The PSMB5 is purified by proprietary chromatographic techniques.

Catalog #:ENPS-057

For research use only.

**Synonyms:** Proteasome subunit beta type-5, Macropain epsilon chain, Multicatalytic endopeptidase complex epsilon chain, Proteasome chain 6, Proteasome epsilon chain, Proteasome subunit MB1, Proteasome subunit X, PSMB5, LMPX, MB1, X, MGC104214.

**Source:** Escherichia Coli.

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

**Amino Acid Sequence:** MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMTTT  
LAFKFRHGI VAADSRATAG AYIASQTVKK VIEINPYLLG TMAGGAADCS FWERLLARQC  
RIYELRNKER ISVAAASKLL ANMVYQYKGM GLSMGTMICG WDKRGPGLYY VDSEGNRISG  
ATFSVGSQSV YAYGVMDRGY SYDLEVEQAY DLARRAIYQA TYRDAYSGGA VNLYHVREDG  
WIRVSSDNVA DL

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

**Formulation:**

The PSMB5 solution (0.25 mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 20% glycerol, 5mM DTT and 0.2M NaCl.

**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:**

PSMB5 belongs to the proteasome B-type family that has a 20S core beta subunit in the proteasome. This catalytic subunit is not present in the immunoproteasome and is substituted by catalytic subunit 3i (proteasome beta 8 subunit). A fundamental function of a modified proteasome, the immunoproteasome, is the processing of class I MHC peptides. PSMB5 exhibits an ATP dependent proteolytic activity and is involved in an ATP/ubiquitin dependent non lysosomal proteolytic pathway.

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