
Product Data Sheet

Product Name: PSMB5 Human
 Cat. No.: GP22185
 Batch No.: 1

Product Data

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|---------------------|--|--------------------|-------------------------|
| Purity | >98% | Source | Escherichia Coli. |
| Physical Appearance | solid | Shipping Condition | Shipped with Ice Packs. |
| 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. | | |
| Amino Acid Sequence | MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSM TTT LAFKFRHGVI VAADSRATAG AYIASQTVKK VIEINPYLLG TMAGGAADCS FWERLLARQC RIYELRNKER ISVAAASKLL ANMVYQYKGM GLSMGMTMICG WDKRGPGLYY VDSEGNRISG ATFSVGSQSV YAYGVMDRGY SYDLEVEQAY DLARRAIYQA TYRDAYSGGA VNLYHVREDG WIRVSSDNVA DLHEKYSGST P. | | |
| Formulation | The PSMB5 solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 20% glycerol, 5mM DTT and 0.2M NaCl. | | |

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.

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.

Background

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

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