
Product Data Sheet

Product Name: PSMB7 Human

Cat. No.: GP22187

Batch No.: 1

Product Data

| | | | |
|---------------------|--|--------------------|-------------------------|
| Purity | >98% | Source | Escherichia Coli. |
| Physical Appearance | solid | Shipping Condition | Shipped with Ice Packs. |
| Synonyms | Proteasome subunit beta type-7; Macropain chain Z; Multicatalytic endopeptidase complex chain Z; Proteasome subunit Z; PSMB7; Z. | | |
| Amino Acid Sequence | MGSSHHHHHH SGLVPRGSH MTTIAGVVYK DGIVLGADTR ATEGMVVADK NCSKIHFISP NIYCCGAGTA ADTDMTTQLI SSNLELHSLT TGRLPRVVTA NRMLKQMLFR YQGYIGAALV LGGVDVTGPH LYSIYPHGST DKLPYVTMGS GSLAAMAVFE DKFRPDMEEE EAKNLVSEAI AAGIFNDLGS GSNIDLCVIS KNKLDFLRPY TVPNKKGTRL GRYRCEKGT AVLTEKITPL EIEVLEETVQ TMDTS. | | |
| Formulation | The PSMB7 solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 20% glycerol and 1mM DTT. | | |

Introduction

Proteasome subunit beta type-7 (PSMB7) belongs to the proteasome B-type family. PSMB7 is a multicatalytic proteinase complex with an extremely ordered ring-shaped 20S core structure. This core structure is comprised of 4 rings of 28 non-identical subunits; 2 rings are comprised of 7 alpha subunits and 2 rings are comprised of 7 beta subunits. Proteasomes are scattered all over eukaryotic cells at a high concentration and cleave peptides in an ATP/ubiquitin-dependent manner in a non-lysosomal pathway. The processing of class I MHC peptides is a vital function of the immunoproteasome (which is a modified proteasome).

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.

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

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Background

PSMB7 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 255 amino acids (44-277) and having a molecular mass of 27.6kDa (Molecular size on SDS-PAGE will appear higher). PSMB7 is fused to a 21 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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