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## Product Data Sheet

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Product Name: PSMB2 Human  
 Cat. No.: GP22182  
 Batch No.: 1

### Product Data

|                     |  |                    |                         |
|---------------------|--|--------------------|-------------------------|
| Purity              | >98%   | Source             | Escherichia Coli.       |
| Physical Appearance | solid  | Shipping Condition | Shipped with Ice Packs. |
| Synonyms            | Proteasome subunit beta type-2; Macropain subunit C7-I; Multicatalytic endopeptidase complex subunit C7-I; Proteasome component C7-I; PSMB2; HC7-I.  |                    |                         |
| Amino Acid Sequence | MGSSHHHHHH SGLVPRGSH MEYLIGIQGP DYVLVASDRV AASNIVQMKD<br>DHDKMFKMSE KILLLCVGEA GDTVQFAEYI QKNVQLYKMR NGYELSPTAA<br>ANFTRRNLD CLRSRTPYHV NLLLAGYDEH EGPALYYMDY LAALAKAPFA<br>AHGYGAFLTL SILDRYYTPT ISRERAVELL RKCLEELQKR FILNLPFTSV<br>RIIDKNGIHD LDNISFPKQG S. |                    |                         |
| Formulation         | The PSMB2 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 30% glycerol and 0.1M NaCl.   |                    |                         |

### Introduction

Proteasome subunit beta type-2 (PSMB2) belongs to the proteasome T1B family, which is a 20S core beta subunit. The proteasome is a multicatalytic proteinase complex with a highly ordered ring-shaped 20S core structure. Proteasomes are spread throughout eukaryotic cells at a high concentration and cleave peptides in an ATP/ubiquitin-dependent process in a non-lysosomal pathway. A crucial function of a modified proteasome, the immunoproteasome, is the processing of class I MHC peptides. PSMB2 is up-regulated in ovarian cancer cell lines.

### 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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PSMB2 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 221 amino acids (1-201) and having a molecular mass of 24.9kDa. PSMB2 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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