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## Product Data Sheet

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Product Name: PSMB1 Human  
 Cat. No.: GP22181  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	HC5; PSC5; PMSB1; FLJ25321; KIAA1838; PSMB1; Proteasome subunit beta type-1; Proteasome component C5; Macropain subunit C5; Multicatalytic endopeptidase complex subunit C5; Proteasome gamma chain.		
Amino Acid Sequence	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSHMFS PYVFNGGTIL AIAGEDFAIV ASDTRLSEGF SIHTRDSPKC YKLTDKTVIG CSGFHGDCLT LTKIIEARLK MYKHSNNKAM TTGAIAAMLS TILYSRRFFP YVYNIIGGL DEEGKGAVYS FDPVGSYQRD SFKAGGSASA MLQPLLDNQV GFKNMQNVEH VPLSLDRAMR LVKDVFISAA ERDVYTGDAL RICIVTKEGI REETVSLRKD.		
Formulation	The PSMB1 solution contains 20mM Tris-HCl pH-8, 1mM DTT and 10% glycerol.		

### Introduction

PSMB1 is part of the proteasome B-type family, also identified as the T1B family, that is a 20S core beta subunit. PSMB1 is tightly linked to the TBP (TATA-binding protein) gene in human and in mouse, and is transcribed in the opposite orientation in both species. The main function of PSMB1 is its degradation activity of unnecessary or damaged proteins by proteolysis. PSMB1 is a multicatalytic proteinase complex which is characterized by its ability to cleave peptides with arg, phe, tyr, leu, and glu adjacent to the leaving group at neutral or slightly basic ph. the proteasome has an atp-dependent proteolytic activity.

### 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%

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

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HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

PSMB1 Human Recombinant fused to a 37 amino acid His Tag at N-terminal produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 250 amino acids (30-241) and having a molecular mass of 27.7 kDa. The PSMB1 is purified by proprietary chromatographic techniques.

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