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## Product Data Sheet

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Product Name: PSMB8 Human  
 Cat. No.: GP22188  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	D6S216; D6S216E; LMP7; MGC1491; PSMB5i ; Low molecular mass protein 7 Macropain subunit C13; Multicatalytic endopeptidase complex subunit C13; Proteasome component C13; Proteasome subunit beta-5i; Really interesting new gene 10 protein.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSHMTTTLA FKQHGVIAA VDSRASAGSY ISALRVNKVI EINPYLLGTM SGCAADCQYW ERLLAKECRL YYLRNGERIS VSAASKLLSN MMCQYRGMGL SMGSMICGWD KKGPGLYYVD EHGTRLSGNM FSTGSGNTYA YGVMDSGYRP NLSPEEAYDL GRRAIAYATH RDSYSGGVVN MYHMKEDGWV KVESTDVSDL LHQYREANQ.		
Formulation	PSMB8 protein solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M Urea and 10% glycerol.		

### Introduction

Proteasome Subunit Beta Type 8 (PSMB8) is a member of the peptidase T1B family. The proteasome is a multicatalytic proteinase complex with well-organized ring-shaped 20S core structure. Proteasomes are spread through eukaryotic cells at a high concentration. PSMB8 is mainly expressed in immature dendritic cells. vital function of a modified proteasome, the immunoproteasome, is the processing of class I MHC peptides. PSMB8 is positioned in the class II region of the MHC (main histocompatibility complex). PSMB8 plays as a significant factor of INFG-induced sensitivity and in apoptosis by degradation of the apoptotic inhibitor MCL1.

### 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

PSMB8 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 229 amino acids (73-276 a.a.) and having a molecular mass of 25.4kDa. PSMB8 is fused to a 25 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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