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## Product Data Sheet

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Product Name: PSMB10 Human

Cat. No.: GP24258

Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Proteasome subunit beta type-10; Low molecular mass protein 10; Macropain subunit MECL-1; Multicatalytic endopeptidase complex subunit MECL-1; Proteasome MECL-1; Proteasome subunit beta-2i; PSMB10; LMP10; MECL1; beta2i; MGC1665; FLJ00366.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MTTIAGLVFQ DGVILGADTR ATNDSVVADK SCEKIHFIAP KIYCCGAGVA ADAEMTTRMV ASKMELHALS TGREPRVATV TRILRQTLFR YQGHV GASLI VGGVDLTGPQ LYGVHPHGSY SRLPFTALGS GQDAALAVLE DRFQPNMTLE AAQGLLVEAVTAGILGDLGS GGNVDACVIT KTGAKLLRTL SSPTEPVKRS GRYHFVPGTT AVLTQTVKPL TLELVEETVQ AMEVE.		
Formulation	PSMB10 protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 40% glycerol and 0.1M NaCl.		

**Introduction**

PSMB10 is a member of the proteasome B-type family (T1B family) which is a 20S core beta subunit. The proteasome is a multicatalytic proteinase complex with an extremely ordered ring-shaped 20S core structure. This core structure is comprised of four rings of 28 non-identical subunits; two rings are composed of seven alpha subunits and two rings are composed of seven beta subunits. Proteasomes are circulated in 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. PSMB10 gene expression is induced by INF $\gamma$ , and it replaces catalytic subunit 2 (proteasome beta 7 subunit) in the immunoproteasome.

**Stability**

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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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

PSMB10 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 255 amino acids (40-273 a.a.) and having a molecular mass of 26.9kDa. PSMB10 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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