
Product Data Sheet

Product Name: PSMB3 Human
 Cat. No.: GP22183
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Proteasome (prosome; macropain) subunit beta type 3; Proteasome chain 13; HC10-II; Proteasome component C10-II; Proteasome theta chain; EC 3.4.25.1; MGC4147.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MSIMSYNGGA VMAMKGKNCV AIAADRRFGI QAQMVTDFQ KIFPMGDRLY IGLAGLATDV QTVAQRLKFR LNLYELKEGR QIKPYTLMSM VANLLYEKRF GPYYTEPVIA GLDPKTFKPF ICSLDLIGCP MVTDDFVVSQ TCAEQMYGMC ESLWEPNMDP DHLFETISQA MLNAVDRDAV SGMGVIVHII EKDKITRTL KARMD		
Formulation	PSMB3 protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 200mM NaCl, 1mM DTT and 50% glycerol.		

Introduction

The proteasome is a multicatalytic proteinase complex with an extremely organized ring-shaped 20S core structure. The core structure consists of 4 rings of 28 non-identical subunits; 2 rings consist of 7 alpha subunits and 2 rings consist of 7 beta subunits. Proteasomes are spread all over the eukaryotic cells in large quantities and cleave peptides in an ATP/ubiquitin-dependent procedure in a non-lysosomal pathway. A vital role of a modified proteasome, the immunoproteasome, is the handling of class I MHC peptides.

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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PSMB3 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 225 amino acids (1-205 a.a.) and having a molecular mass of 25.1kDa. PSMB3 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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