
Product Data Sheet

Product Name: PSMB4 Human
 Cat. No.: GP22184
 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 4; PROS26; HN3; Macropain beta chain; Multicatalytic endopeptidase complex beta chain; Proteasome chain 3; 26 kDa prosomal protein; HsN3; PROS-26; hsBPROS26; EC 3.4.25.1.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MTQNPMVTGT SVLGVKFEGG VVIAADMLGS YGSLARFRNI SRIMRVNNST MLGASGDYAD FQYLKQVLGQ MVIDEELLGD GHSYSPRAIH SWLTRAMYSR RSKMNPLWNT MVIGGYADGE SFLGYVDMLG VAYEAPSLAT GYGAYLAQPL LREVLEKQPV LSQTEARDLV ERCMRVLYYR DARSYNRFQI ATVTEKGVEI EGPLSTETNW DIAHMISGFE		
Formulation	PSMB4 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 100mM NaCl, 1mM DTT and 30% glycerol.		

Introduction

PSMB4 is a member of the peptidase T1B family. The 20S Proteasome chamber holds structural alpha subunits and predominantly catalytic beta subunits. The two external rings in the proteasome contain seven alpha subunits each and the two internal rings contain of seven beta subunits each. PSMB4 is a beta subunit of the 20S Proteasome that is spread all over the eukaryotic cells in large quantities and cleaves peptides in an ATP/ubiquitin-dependent process in a non-lysosomal pathway.

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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PSMB4 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 240 amino acids (46-264 a.a.) and having a molecular mass of 26.6kDa. PSMB4 is fused to a 21 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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