
Product Data Sheet

Product Name: PSMD11 Human

Cat. No.: GP22192

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	S9; Rpn6; p44.5; MGC26S proteasome regulatory subunit S9; 26S proteasome regulatory subunit p44.5; PSMD11.3844; 26S proteasome non-ATPase regulatory subunit 11; 26S proteasome regulatory subunit RPN6.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MAAAAVVEFQ RAQSLSTDR EASIDILHSI VKRDIQENDE EAVQVKEQSI LELGSLAKT GQAAELGGLL KYVRPFLNSI SKAKAARLVR SLLDLFLDME AATGQEVELC LECIEWAKSE KRTFLRQALE ARLVSLYFDT KRYQEALHLG SQLLRELKKM DDKALLVEVQ LLESKTYHAL SNLPKARAAL TSARTTANAI YCPPKLQATL DMQSGIIHAA EEKDWKTAYS YFYEA FEGYD SIDSPKAITS LKYMLLCKIM LNTPEDVQAL VSGKLALRYA GRQTEALKCV AQASKNRSLA DFEKALTDYR AELRDDPIIS THLAKLYDNL LEQNLIRVIE PFSRVQIEHI SSLIKLSKAD VERKLSQMIL DKKFHGILDQ GEGVLIIFDE PPVDKTYEAA LETIQNMSKV VDSLYNKAKK LT.		
Formulation	The PSMD11 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0) and 10% glycerol.		

Introduction

The 26S proteasome is a multicatalytic proteinase complex with a well ordered structure composed of two complexes- a 20S core and a 19S regulator. PSMD11 is a non-ATPase subunit of the 19S regulator. The 20S core is composed of four rings of 28 non-identical subunits; two rings are composed of 7 alpha subunits and two rings are composed of 7 beta subunits. The 19S regulator is composed of a base that contains six ATPase subunits and two non-ATPase subunits, and a lid that contains up to ten non-ATPase subunits. Proteasomes are spread throughout eukaryotic cells at a high concentration and cleave peptides in an ATP/ubiquitin-dependent process in a non-lysosomal pathway.

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

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An indispensable function of a modified proteasome, the immunoproteasome, is the processing 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

PSMD11 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 442 amino acids (1-422a.a) and having a molecular mass of 49.6kDa. PSMD11 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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