
Product Data Sheet

Product Name: PSMD5 Human

Cat. No.: GP22189

Batch No.: 1

Product Data

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|---------------------|--|--------------------|-------------------------|
| Purity | >98% | Source | E.coli. |
| Physical Appearance | solid | Shipping Condition | Shipped with Ice Packs. |
| Synonyms | PSMD5; Proteasome (Prosome; Macropain) 26S Subunit; Non-ATPase; 526S Protease Subunit S5 Basic; 26S Proteasome Subunit S5B; S5B; 26S Proteasome Non-ATPase Regulatory Subunit 5; KIAA0072. | | |
| Amino Acid Sequence | MGSSHHHHHH SGLVPRGSH MGSEFMAAQA LALLREVARL EAPLEELRAL HSVLQAVPLN ELRQQAELRLGPLFLLNE NHREKTTLCV SILERLLQAM EPVHVARNLR VDLQRGLIHP DDSVKILTLS QIGRIVENS DAVTEILNNAE LLKQIVYCIG GENLSVAKAA IKLSRISLT QAGLEALFES NLLDDLK SVM KTNDIVRYRVYELIIEISSV SPESLNYCTT SGLVTQLLRE LTGEDVLVRA TCIEMVTSLA YTHHGRQYLA QEGVIDQISNIIVGADSDPF SSFYLPGFVK FFGNLAVMDS PQQICERYPI FVEKVFEMIE SQDPTMIGVA VDTVGILGSNVEGKQVLQKT GTRFERLLMR IGHQSKNAPVELKIRCLDAI SLLLYLPPEQ QTDDLRLMTE SWFSSLSRDP LELFRGISSQ PFPELHCAAL KVFTAIANQP WAQKLMFN SPGFVEYVVDRS VEHDKASKDA KYELVKALAN SKTIAEIFGN PNYLRLR TYL SEGPPYYVKPV STTAVEGAE. | | |
| Formulation | PSMD5 protein solution (1mg/ml) containing Phosphate Buffered Saline (pH7.4) and 10% glycerol. | | |

Introduction

Proteasome 26S Subunit, Non-ATPase 5, also known as PSMD5 is a member of the proteasome subunit S5B/HSM3 family. The 26S proteasome is an enzymatic complex which degrades ubiquitinated proteins in eukaryotic cells. Furthermore, PSMD5 acts as a chaperone which is involved in the assembly of the 26S proteasome, particularly of the base subcomplex of the PA700/19S regulatory complex. PSMD5 is full of dileucine repeats, which have been involved in trafficking of various transmembrane proteins.

Stability

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

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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

PSMD5 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 529 amino acids (1-504 a.a) and having a molecular mass of 58.9kDa. PSMD5 is fused to a 25 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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