
Product Data Sheet

Product Name: PSME3 Human
 Cat. No.: GP24261
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Proteasome (prosome; macropain) activator subunit 3 (PA28 gamma; Ki); PA28G; Ki; Ki nuclear autoantigen; PA28-gamma; REG-GAMMA; Activator of multicatalytic protease subunit 3; Proteasome activator 28 subunit gamma; 11S regulator complex subunit gamma; PA28gamma;		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MASLLKVDQE VKLKVDSFRE RITSEAEDLV ANFFPKLLE LDSFLKEPIL NIHDLTQIHS DMNLPVPDPI LLTNSHDGLD GPTYKKRRLD ECEAFQGTK VFVMPNGMLK SNQQLVDIIE KVKPEIRLLI EKCNTVKMWV QLLIPRIEDG NNFVSVIQEE TVAELRTVES EAASYLDQIS RYYITRAKLV SKIAKYPHVE DYRRTVTEID EKEYISLRLI ISELRNQYVT LHMILKNIE KIKRPRSSNA ETLY		
Formulation	PSME3 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 200mM NaCl, 2mM DTT and 40% glycerol.		

Introduction

PSME3 is a member of the PA28 family. The 26S proteasome is an extremely organized multicatalytic proteinase complex composed of 2 complexes, a 20S core and a 19S regulator. Proteasomes are spread all over the eukaryotic cells in large quantities and cleave peptides in an ATP/ubiquitin-dependent process in a non-lysosomal pathway. PSME3 stimulates the trypsin-like catalytic subunit of the proteasome and inhibits the chymotrypsin-like and postglutamyl-preferring (PGPH) subunits. PSEM3 enables the MDM2-p53/TP53 collaboration that encourages ubiquitination- and MDM2-dependent proteasomal degradation of p53/TP53, restricting its growth and causing inhibited apoptosis after DNA damage.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer

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

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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

PSME3 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 274 amino acids (1-254 a.a.) and having a molecular mass of 31.7kDa. PSME3 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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