
Product Data Sheet

Product Name: PSME1 Human
 Cat. No.: GP24259
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	REG-alpha; PA28alpha; PA28a; Proteasome Activator subunit-1; Proteasome Activator 28 subunit alpha.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MAMLRVQPEA QAKVDVFRED LCTKTENLLG SYFPKKISEL DAFLKEPALN EANLSNLKAP LDIPVPDPVK EKEKEERKKQ QEKEDKDEKK KGEDEDKGPP CGPVNCNEKI VLLQRLKPE IKDVIEQLNL VTTWLQLQIP RIEDGNNFGV AVQEKVFELM TSLHTKLEGF HTQISKYFSE RGDVTKAAK QPHVGDYRQL VHELDEAEYR DIRLMVMEIR NAYAVLYDII LKNFEKLLKP RGETKGMIIY		
Formulation	The PSME1 protein solution (0.5mg/1ml) is formulated in 20mM Tris-HCl buffer (pH8.0) 0.1M NaCl and 10% glycerol.		

Introduction

PSME1 is a Proteasome Activator 28 subunit alpha essential for presentation of certain major histocompatibility (MHC) class I antigens. The PSME1 complex is an alternate proteasome activator which operates with no use of ubiquitin. The PSME1 complex is made out of two homologous subunits, alpha and beta, that functions in similar catalytic properties and is connected to a hexameric ring.

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. Please avoid freeze thaw cycles.

Background

PSME1 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 269 amino acids (1-249a.a.) and having a molecular mass of 30.8kDa. PSME1 is fused to a 20

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amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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