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**Product Data Sheet**


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Product Name: PSME2 Human  
 Cat. No.: GP24260  
 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 2 (PA28 beta); PA28beta; Activator of multicatalytic protease subunit 2; Proteasome activator 28 subunit beta; 11S regulator complex subunit beta; PA28B; REG-beta; cell migration-inducing protein 22; MCP activator 31-kD subunit; proteasome activator complex subunit 2; Proteasome activator hPA28 subunit beta.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MAKPCGVRLS GEARQVEVF RQNLFQEAEE FLYRFLPQKI IYLNQLLQED SLNVADLTSL RAPLDIIPD PPPKDDMET DKQEKKEVPK CGFLPGNEKV LSLALVKPE VWTLEKCECIL VITWQHLP KIEDGNDFGV AIQEKVLERV NAVKTKVEAF QTTISKYFSE RGDVAKASK ETHVMDYRAL VHERDEAAYG ELRAMVLDLR AFYAELYHII SSNLEKIVNP KGEEKPSMY		
Formulation	The PSME2 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.1M NaCl, 1mM DTT, 0.1mM PMSF and 20% glycerol.		

**Introduction**

PSME2 is an IFN-gamma inducible proteasome activator essential for production of several key histocompatibility (MHC) class I antigens. Downregulation of PSME2 causes unusual proteasome activation and is connected to the development of intimal hyperplasia (IH) in animal models.

**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.

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

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### Background

PSME2 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 259 amino acids (1-239) and having a molecular mass of 29.5 kDa. PSME2 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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