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## Product Data Sheet

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Product Name: PSMG3 Human  
 Cat. No.: GP24263  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Proteasome assembly chaperone 3; PAC-3; hPAC3; PSMG3; PAC3; C7orf48; MGC10911.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MEDTPLVISK QKTEVVCVGP TQVVCTAFSS HILVVVTQFG KMGTLVSLEP SSVASDVSKP VLTTKVLLGQ DEPLIHVFAK NLVAFVSQEA GNRAVLLAVA VKDKSMEGLK ALREVIRVCQ VW.		
Formulation	The PSMG3 solution (0.5 mg/ml) contains 20mM Tris-HCl Buffer (pH 8.0) and 10% Glycerol.		

### Introduction

PSMG3 is a chaperone protein that promotes assembly of the 20S proteasome. PSMG3 may cooperate with PSMG1-PSMG2 heterodimers to coordinate the correct assembly of proteasomes. PSMG3 interacts with PSMG4, as well as directly with alpha and beta subunits of the 20S proteasome but dissociates prior to the formation of half-proteasomes, probably upon recruitment of POMP.

### 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

PSMG3 Human Recombinant fused with a 20 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 142 amino acids (1-122 a.a.) and having a molecular mass of 15.2kDa. The PSMG3 is purified by proprietary chromatographic techniques.

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

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