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## Product Data Sheet

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Product Name: MSMB Human  
 Cat. No.: GP24265  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Beta-microseminoprotein; Prostate secreted seminal plasma protein; Prostate secretory protein PSP94; Seminal plasma beta-inhibin; Immunoglobulin-binding factor; MSP; PSP; PSP57; PSP94; PSP-94; MSP-beta; beta-MSP; Microseminoprotein; IGBF; PN44; MSMB; MSP-B; MSPB; PRPS; Prostatic Secretory Protein.		
Amino Acid Sequence	MKHHHHHHAS SCYFIPNEGV PGDSTRKCMD LKGNKHPINS EWQTDNCETC TCYETEISCC TLVSTPVGVD KDNCQRIFKK EDCKYIVVEK KDPKKTCSVSEWII.		
Solubility	Add deionized water to a working concentration of 0.5mg/ml and let the lyophilized pellet dissolve completely.		
Formulation	The sterile filtered concentrated (0.5mg/ml) protein solution was lyophilized with 20mM Tris & 20mM NaCl pH-7.5.		

### Introduction

Microseminoprotein is a member of the immunoglobulin binding factor family. It is synthesized by the epithelial cells of the prostate gland and secreted into the seminal plasma. This protein has inhibin-like activity. It may have a role as an autocrine paracrine factor in uterine, breast and other female reproductive tissues. The expression of the encoded protein is found to be decreased in prostate cancer. Two alternatively spliced transcript variants encoding different isoforms are described for this gene. The use of alternate polyadenylation sites has been found for this gene.

### Stability

Store lyophilized protein at -20°C . Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time.

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

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### Background

MSMB Recombinant Human produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 104 amino acids and having a molecular mass of 12 kDa. The MSMB is fused to His tag at N-Terminus. The Human MSMB is purified by proprietary chromatographic techniques.

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