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## Product Data Sheet

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Product Name: PIP Human  
 Cat. No.: GP20863  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Human Seminal Plasma.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Prolactin-inducible protein; Gross cystic disease fluid protein 15; GCDFP-15; Prolactin-induced protein; Secretory actin-binding protein; SABP; gp17; PIP; GCDFP15; GPIP4.		
Amino Acid Sequence	QDNTRKIIK NFDIPKSVRP NDEVTAVLAV QTELKECMVV KTYLISSIPL QGAFNYKYTA CLCDDNPKTF YWDFYTNRTV QIAAVVDVIR ELGICPDDAA VIPIKNNRFY TIEILKVE.		
Solubility	It is recommended to add deionized water to prepare a working stock solution of approximately 0.5 mg/ml and let the lyophilized pellet dissolve completely. PIP is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.		
Formulation	PIP protein filtered (0.4 $\mu$ m) and lyophilized in 0.5mg/ml in 0.05M phosphate buffer and 0.075M NaCl pH 8.0.		

### Introduction

Prolactin inducible protein (PIP) is a 17kDa glycoprotein existing in human seminal plasma. PIP is synthesized as a 146 amino acid long polypeptide exhibiting high sequence similarity with mouse submaxillary gland with a single glycosylation site. The precise biological functions of PIP are still ambiguous but various functions have been assigned to PIP due its existence at high concentration in biological fluids. PIP binds to various proteins such as fibrinogen, actin, keratin, myosin and tropomyosin. PIP is also expressed in pathological conditions of the mammary gland and in some exocrine tissues, such as the lacrimal, salivary and sweat glands. Due to PIP's association with secretory cell differentiation, it has been used in diagnostic evaluation of tumors of breast, salivary gland, and skin.

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

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### 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; it does not show any change after two weeks at 4°C .

### Background

The Prolactin-Induced Protein produced from Human Seminal Plasma has a molecular mass of 13.52kDa (calculated without glycosylation) containing 118 amino acid residues.

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