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## Product Data Sheet

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Product Name: PIP Protein  
 Cat. No.: GP20864  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Prolactin-inducible protein; Gross cystic disease fluid protein 15; GCDFP-15; Prolactin-induced protein; Secretory actin-binding protein; SABP; gp17; GCDFP15; GPIP4; PIP.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSQDNTRKI IKNFDIPKS VRPNDEVTAVALAVQTELKEC MVMKTYLISS IPLQGAFNYK YTACLCDDNP KTFYWDFYTNRTVQIAAVVD VIRELGICPD DAAVIPIKNN RFYTIEILKV E.		
Formulation	PIP protein solution (1mg/ml) contains 20mM Tris-HCl buffer, (pH 8.0), 10% glycerol and 0.4M Urea.		

### Introduction

Prolactin-inducible protein (PIP) is a main protein component of benign breast gross cysts. PIP is a famous indicator of breast cancer, since it is found in around 50% of all breast cancer specimens. PIP is expressed in exocrine glands, in pathologic conditions, in breast cysts and breast cancers exhibiting apocrine features. PIP and prostate specific antigen are co-expressed in androgen receptor-positive breast tumours.

### 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

PIP Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 141 amino acids (29-146 a.a.) and having a molecular mass of 15.9kDa. PIP is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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

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