

# Recombinant human PIP protein

Catalog Number: ATGP2308

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

29-146aa

### UniProt No.

P12273

### NCBI Accession No.

NP\_002643

### Alternative Names

Prolactin-inducible protein, GCDFP-15, GCDFP15, GPIP4

## PRODUCT SPECIFICATION

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### Molecular Weight

15.9 kDa (141aa)

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

### Purity

> 90% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE, Denatured

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

Prolactin-inducible protein, also known as PIP, is a major protein component of benign breast gross cysts. It is a known marker of breast cancer, as it is found in approximately 50% of all breast cancer specimens. It is expressed in exocrine glands and, 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. Recombinant human PIP protein, fused to His-tag at N-terminus, was expressed in E. coli.

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### Amino acid Sequence

MGSSHHHHHH SGLVPRGSH MGSQDNTRKI IKNFDIPKS VRPNDEVTA V LAVQTELKEC M VVKTYLISS IPLQGAFNYK  
YTACLDDNP KTFYWDFYTN RTVQIAAVVD VIRELGICPD DAAVIPIKNN R FYTIEILKV E

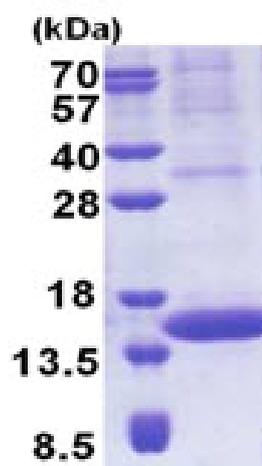
### General References

Mazoujian G., et al. (1983) J Pathol. 110:105-112.

## DATA

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### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)