

**PIP, 29-146aa, Human, His tag, E.coli**

**Cat.NO.: TP03414**

3th Edition

**Synonyms:** Prolactin-inducible protein, GCDFP-15, GCDFP15, GPIP4

**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.

**Form:** Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol

**Molecular Weight:** 15.9 kDa (141aa)

**Sequences:**

MGSSHHHHHSSGLVPRGSHMGSQDNTRKIIIKNFDIPKSVRPNDEVTAFLAVQTELKECMVVKTYLISSIPLQGAF  
NYKYTACLDDNPKTFYWDFYTNRTVQIAAVVDVIRELGICPDAAVPIKNNRFYTIEILKVE

**Purity:** > 95% by HPLC

**Concentration:** 1 mg/ml (determined by Bradford assay)

**Endotoxin Level:** <1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.