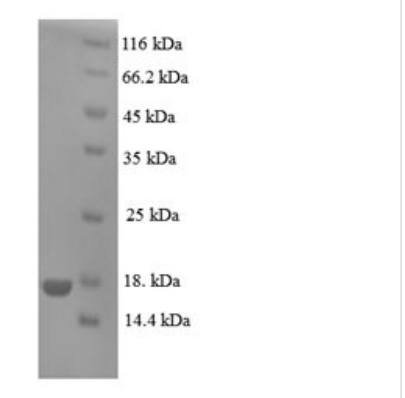
Recombinant Human Prolactin-inducible protein (PIP)

Product Code	CSB-EP018020HU
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P12273
Alias	Gross cystic disease fluid protein 15 ;GCDFP-15Prolactin-induced protein;Secretory actin-binding protein ;SABPgp17
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	QDNTRKIIIKNFDIPKSVRPNDEVTAVLAVQTELKECMVVKTYLISSIPLQGAFNY KYTACLCDDNPKTFYWDFYTNRTVQIAAVVDVIRELGICPDDAAVIPIKNNRFYT IEILKVE
Research Area	Signal Transduction
Source	E.coli
Target Names	PIP
Expression Region	29-146aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	17.5kDa
Protein Length	Full Length of Mature Protein

Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

	The expression region of this recombinant Human PIP covers amino acids 29-146. This PIP protein is theoretically predicted to have a molecular weight of 17.5 kDa. Expression of this PIP protein is conducted in e.coli. The PIP coding gene included the N-terminal 6xHis tag, which simplifies the detection and purification processes of the recombinant PIP protein in following stages of expression and purification. Prolactin-inducible protein (PIP) is a member of the lipophilin subfamily within the secretoglobin superfamily. PIP is expressed by normal apocrine glands, including salivary, lacrimal, and sweat glands, and is secreted into different body fluids, including milk, saliva, and seminal fluid. PIP is regulated by hormones such as androgens and estrogens. It is highly expressed in breast cancer cells, whereas its levels are normally low in the mammary glands of healthy people. PIP modulates cell-matrix and cell-cell adhesion in breast cancer cells. It also promotes incasion and cell cycle progression of breast cancer cells. PIP expression is commonly used as a marker for certain breast cancers, particularly those with glandular differentiation. Its presence is often associated with tumors that have a more favorable prognosis.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Shelf Life	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.