9051 Mira Mesa Blvd, #910094
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PIP Human

Prolactin-Induced Protein Human
GRF0322

Product Overview

Name	PIP Human
Description	
Prolactin-Induced Protein Human	
Accession (Primary)	P12273
Synonyms	
Prolactin-inducible protein, Gross cystic disease fluid protein 15, GCDFP-15, Prolactin-induced protein, Secretory actin-binding protein, SABP, gp17, PIP, GCDFP15, GPIP4.	
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.	
Source	
Human Seminal Plasma.	
Physical Appearance	
Filtered White lyophilized (freeze-dried) powder.	
Formulation	
PIP protein filtered (0.4 µm) and lyophilized in 0.5mg/ml in 0.05M phosphate buffer and 0.075M NaCl pH 8.0.	
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.	
Purity	
Greater than 95% as determined by SDS-PAGE.	
Amino acid sequence	

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QDNTRKIIIK 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.

Human Virus Test

Samples from each donor have been tested and found negative for HBsAg, HIV1+2, HCV, syphilis, aHBc, RRR.

Precautions

PIP Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P12273)