

PAEP Protein, Human (HEK293, Myc, His)

Cat. No.:	HY-P71669
Synonyms:	Alpha uterine protein; gD; GdA; GdF; GdS; Glycodelin A; Glycodelin; Glycodelin F; Glycodelin S; MGC138509; MGC142288; PAEG
Species:	Human
Source:	HEK293
Accession:	P09466 (19M-180F)
Gene ID:	5047
Molecular Weight:	Approximately 30 kDa

PROPERTIES

AA Sequence	<p> M D I P Q T K Q D L E L P K L A G T W H S M A M A T N N I S L M A T L K A P L R V H I T S L L P T P E D N L E I V L H R W E N N S C V E K K V L G E K T E N P K K F K I N Y T V A N E A T L L D T D Y D N F L F L C L Q D T T T P I Q S M M C Q Y L A R V L V E D D E I M Q G F I R A F R P L P R H L W Y L L D L K Q M E E P C R F </p>
Appearance	Lyophilized powder.
Formulation	Lyophilized a 0.2 µm filtered solution of PBS, 6% Trehalose, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>The PAEP Protein, a glycoprotein, intricately regulates crucial steps during fertilization while also exerting immunomodulatory effects. In reproductive tissues, four distinct glycoforms—namely glycodelin-S, -A, -F, and -C—have been identified, each characterized by unique glycosylation patterns and biological activities. Glycodelin-A, for instance, exhibits both contraceptive and immunosuppressive activities. On the other hand, Glycodelin-C plays a role in stimulating the binding of spermatozoa to the zona pellucida. In contrast, Glycodelin-F serves to inhibit spermatozoa-zona pellucida binding and significantly suppresses the progesterone-induced acrosome reaction of spermatozoa. Additionally, Glycodelin-S, present in seminal plasma, maintains the uncapacitated state of human spermatozoa. The protein forms a homodimer, further emphasizing its structural complexity and functional diversity in orchestrating key events during</p>
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fertilization and modulating immune responses.

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

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