

PAEP Protein, Human (HEK293, His)

Cat. No.:	HY-P700004
Synonyms:	Alpha uterine protein; gD; GdA; GdF; GdS; Glycodelin A; Glycodelin; Glycodelin F; Glycodelin S; MGC138509; MGC142288; PAEG
Species:	Human
Source:	HEK293
Accession:	P09466 (M19-F180)
Gene ID:	5047
Molecular Weight:	Approximately 18.06 kDa

PROPERTIES

AA Sequence	<pre> MDIPQTKQDL ELPKLAGTWH SMAMATNNIS LMATLKAPLR VHITSLLPTP EDNLEIVLHR WENNSCVEKK VLGEKTENPK KFKINYTVAN EATLLDTDYD NFLFLCLQDT TTPIQSMMCQ YLARVLVEDD EIMQGFIRAF RPLPRHLWYL LDLKQMEEPC RF </pre>
Biological Activity	Data is not available.
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl, 30% glycerin, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

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,</p>
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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 fertilization and modulating immune responses.

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

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