

## Recombinant Full Length Human PAEP Protein

**Cat. No.** PAEP-354HF    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant full length Human Placental Protein 14 / Glycodelin A with an N terminal proprietary tag; Predicted MWt 45.87 kDa.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>ProteinLength</b>    | 180 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Description</b>      | <p>This gene is a member of the kernel lipocalin superfamily whose members share relatively low sequence similarity but have highly conserved exon/intron structure and three-dimensional protein folding. Most lipocalins are clustered on the long arm of chromosome 9. The encoded glycoprotein has been previously referred to as pregnancy-associated endometrial alpha-2-globulin, placental protein 14, and glycodelin, but has been officially named progestagen-associated endometrial protein. Three distinct forms, with identical protein backbones but different glycosylation profiles, are found in amniotic fluid, follicular fluid and seminal plasma of the reproductive system. These glycoproteins have distinct and essential roles in regulating a uterine environment suitable for pregnancy and in the timing and occurrence of the appropriate sequence of events in the fertilization process. A number of alternatively spliced transcript variants have been observed at this locus, but the full-length nature of only two, each encoding the same protein, has been determined.</p> |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                         |                                                                                                                                                                                                                                                             |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Form</b>             | Liquid                                                                                                                                                                                                                                                      |
| <b>Molecular Mass</b>   | 45.870kDa inclusive of tags                                                                                                                                                                                                                                 |
| <b>AA Sequence</b>      | MLCLLLTLGVALVCGVPAMDIPQTKQDLELPKLAGTWHSM AMATNNISLMATLKAPL<br>RVHITSLLPTPEDNLEIVLHRWE NNSCVEKKVLGEKTENPKKFKINYTVANEATLLDT<br>DYDNF LFLCLQDTTTPIQSMMCQYLARVLVEDDEIMQGFIRAFRP LPRHLWYLLDLK<br>QMEEPCRF                                                        |
| <b>Purity</b>           | Proprietary Purification                                                                                                                                                                                                                                    |
| <b>Storage</b>          | Shipped on dry ice. Upon delivery aliquot and store at -80 centigrade. Avoid freeze / thaw cycles.                                                                                                                                                          |
| <b>Storage Buffer</b>   | pH: 8.00. Constituents:0.79% Tris HCl, 0.31% Glutathione.                                                                                                                                                                                                   |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                             |
| <b>Gene Name</b>        | PAEP progesterone-associated endometrial protein [ Homo sapiens ]                                                                                                                                                                                           |
| <b>Official Symbol</b>  | PAEP                                                                                                                                                                                                                                                        |
| <b>Synonyms</b>         | PAEP; progesterone-associated endometrial protein; glyodelin; alpha uterine protein; GD; GdA; GdF; GdS; glyodelin A; glyodelin F; glyodelin S; MGC138509; MGC142288; PAEG; PEP; PP14; PP14 protein (placental protein 14); pregnancy associated endometrial |
| <b>Gene ID</b>          | 5047                                                                                                                                                                                                                                                        |
| <b>mRNA Refseq</b>      | NM_001018049                                                                                                                                                                                                                                                |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                |              |
|----------------|--------------|
| Protein Refseq | NP_001018059 |
| MIM            | 173310       |
| UniProt ID     | P09466       |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA