

Recombinant Full Length Human PAEP Protein

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

SPECIFICATION

Product Overview	Recombinant full length Human Placental Protein 14 / Glycodelin A with an N terminal proprietary tag; Predicted MWt 45.87 kDa.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	180 amino acids
Description	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.

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Form	Liquid
Molecular Mass	45.870kDa inclusive of tags
AA Sequence	MLCLLLTLGVALVCGVPAMDIPQTKQDLELPKLAGTWHSM AMATNNISLMATLKAPL RVHITSLLPTPEDNLEIVLHRWE NNSCVEKKVLGEKTENPKKFKINYTVANEATLLDT DYDNF LFLCLQDTTTPIQSMMCQYLARVLVEDDEIMQGFIRAFRP LPRHLWYLLDLK QMEEPCRF
Purity	Proprietary Purification
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80 centigrade. Avoid freeze / thaw cycles.
Storage Buffer	pH: 8.00. Constituents:0.79% Tris HCl, 0.31% Glutathione.
GENE INFORMATION	
Gene Name	PAEP progesterone-associated endometrial protein [Homo sapiens]
Official Symbol	PAEP
Synonyms	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
Gene ID	5047
mRNA Refseq	NM_001018049

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Protein Refseq	NP_001018059
MIM	173310
UniProt ID	P09466

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