

Recombinant Human PAEP Protein, His&GST-tagged

Cat. No. PAEP-1893H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PAEP Protein (Met19-Phe158) with N-His&GST tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Met19-Phe158
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. Alternative splicing results in multiple transcript variants.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 46.5 kDa

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	Accurate Molecular Mass: 49 kDa
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	PAEP progestagen-associated endometrial protein [Homo sapiens (human)]
Official Symbol	PAEP
Synonyms	PAEP; progestagen-associated endometrial protein; glycodelin; alpha uterine protein; GD; GdA; GdF; GdS; glycodelin A; glycodelin F; glycodelin S; MGC138509; MGC142288; PAEG; PEP; PP14; PP14 protein (placental protein 14); pregnancy associated endometrial alpha 2 globulin; progesterone associated endometrial protein; PEG; glycodelin-A; glycodelin-F; glycodelin-S; placental protein 14; progesterone-associated endometrial protein; pregnancy-associated endometrial alpha-2 globulin; pregnancy-associated endometrial alpha-2-globulin; progestagen-

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associated endometrial protein (placental protein 14, pregnancy-associated endometrial a;

Gene ID	5047
mRNA Refseq	NM_001018049
Protein Refseq	NP_001018059
MIM	173310
UniProt ID	P09466

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