

Recombinant Human PAEP Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PAEP-6549H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PAEP MS Standard C13 and N15-labeled recombinant protein (NP_002562) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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 progesterone-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.
Molecular Mass	20.6 kDa
AA Sequence	MLCLLLTLGVALVCGVPAMDIPQTKQDLELPKLAGTWHSMAMATNNISLMATLKAPL

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RVHITSLLPEDNLEIVLHRWENNSCVEKKVLGEKTENPKKFKINYTVANEATLLDT
DYDNFLFLCLQDTTTPIQSMMCQYLARVLVEDDEIMQGFIRAFRPLPRHLWYLLDLK
QMEEPCRFRTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name PAEP progesterone-associated endometrial protein [Homo sapiens (human)]

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 alpha 2 globulin; progesterone associated endometrial protein; PEG; glyodelin-A; glyodelin-F; glyodelin-S; placental protein 14; progesterone-associated endometrial protein; pregnancy-associated endometrial alpha-2 globulin; pregnancy-associated endometrial alpha-2-globulin; progesterone-associated endometrial protein (placental protein 14, pregnancy-associated endometrial a;

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Gene ID	5047
mRNA Refseq	NM_002571
Protein Refseq	NP_002562
MIM	173310
UniProt ID	P09466
SDS-PAGE	