

Recombinant Human PAPP A, His-tagged

Cat. No. PAPPA-28662TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 81-271 of Human PAPP A Jelly-Roll domain fragment with an amino-terminal hexahistidine tag
Species	Human
Source	E.coli
ProteinLength	81-271 a.a.
Description	This gene encodes a secreted metalloproteinase which cleaves insulin-like growth factor binding proteins (IGFBPs). It is thought to be involved in local proliferative processes such as wound healing and bone remodeling. Low plasma level of this protein has been suggested as a biochemical marker for pregnancies with aneuploid fetuses.
Conjugation	HIS
Tissue specificity	High levels in placenta and pregnancy serum. In placenta, expressed in X cells in septa and anchoring villi, and in syncytiotrophoblasts in the chorionic villi. Lower levels are found in a variety of other tissues including kidney, myometrium, endometrium
Form	Liquid
Purity	>95% by SDS-PAGE

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Storage buffer	Preservative: None Constituents: 50% Glycerol, PBS
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Sequences of amino acids	TEEP SPPSRALYFS GRGEQLRVLR ADLELPDAFTLQVWLRAEG GQRSPAVITG LYDKCSYISR DRGWVVGIHT ISDQDNKDPR YFFSLKTDRARQVTTINHR SYLPGQWVYL AATYDGQFMK LYVNGAQVAT SGEQVGGIFS PLTQKCKVLMLGGSALNHNY RGYIEHFSLW KVARTQREIL S
Sequence Similarities	Belongs to the peptidase M43B family. Contains 5 Sushi (CCP/SCR) domains.
GENE INFORMATION	
Gene Name	PAPPA pregnancy-associated plasma protein A, pappalysin 1 [Homo sapiens]
Official Symbol	PAPPA
Synonyms	PAPPA; pregnancy-associated plasma protein A, pappalysin 1; pappalysin-1; ASBABP2; aspecific BCL2 ARE binding protein 2; differentially placenta 1 expressed protein; DIPLA1; IGFBP 4ase; insulin like growth factor dependent IGF binding protein 4 protease;
Gene ID	5069
mRNA Refseq	NM_002581
Protein Refseq	NP_002572
MIM	176385

Uniprot ID	Q13219
Chromosome Location	9q33.1
Pathway	Diabetes pathways, organism-specific biosystem; Regulation of Insulin-like Growth Factor (IGF) Activity by Insulin-like Growth Factor Binding Proteins (IGFBPs), organism-specific biosystem;
Function	endopeptidase activity; metal ion binding; metallopeptidase activity; metallopeptidase activity; peptidase activity;

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