

## Recombinant Human PAPP A, His-tagged

Cat. No. PAPP A-28662TH Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant fragment, corresponding to amino acids 81-271 of Human PAPP A Jelly-Roll domain fragment with an amino-terminal hexahistidine tag
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	81-271 a.a.
<b>Description</b>	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.
<b>Conjugation</b>	HIS
<b>Tissue specificity</b>	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
<b>Form</b>	Liquid
<b>Purity</b>	>95% by SDS-PAGE

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<b>Storage buffer</b>	Preservative: None Constituents: 50% Glycerol, PBS
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Sequences of amino acids</b>	TEEP SPPSRALYFS GRGEQLRVLR ADLELPDAFTLQVWLRAEG GQRSPAVITG LYDKCSYISR DRGWVVGIHT ISDQDNKDPR YFFSLKTDRARQVTTINAHR SYLPGQWVYL AATYDGQFMK LYVNGAQVAT SGEQVGGIFS PLTQKCKVLM LGGSALNHNY RGYIEHFSLW KVARTQREIL S
<b>Sequence Similarities</b>	Belongs to the peptidase M43B family. Contains 5 Sushi (CCP/SCR) domains.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	<a href="#">PAPPA pregnancy-associated plasma protein A, pappalysin 1 [ Homo sapiens ]</a>
<b>Official Symbol</b>	<a href="#">PAPPA</a>
<b>Synonyms</b>	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;
<b>Gene ID</b>	<a href="#">5069</a>
<b>mRNA Refseq</b>	<a href="#">NM_002581</a>
<b>Protein Refseq</b>	<a href="#">NP_002572</a>
<b>MIM</b>	<a href="#">176385</a>

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

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