

Recombinant Human pregnancy-associated plasma protein A, pappalysin 1, His-tagged

Cat. No. PAPPA-281H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PAPP-A comprises a 191 amino acid fragment (81-271) corresponding to the PAPP-A 'Jelly-Roll' domain fragment and is expressed in E. coli with an aminoterminal hexahistidine tag.
Species	Human
Source	E.coli
ProteinLength	81-271 a.a.
Description	PAPP-A is a large zinc binding protein, which acts as a metalloprotease and has been shown to cleave insulin-like growth factor binding protein-4. PAPP-A can act as a regulator of IGF bioactivity in several biological systems, including the human ovary and cardiovascular systems. Recent studies have shown that levels are elevated in patients with unstable angina or acute myocardial infarction. PAPP-A is also produced in high concentrations during pregnancy and is released into the maternal circulation. Low levels of PAPP-A have been linked with a number of foetal chromosomal abnormalities, as well as pre-eclampsia and stillbirth.
Purity	>95% by SDS-PAGE
Form	Liquid
Storage	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for

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longer periods of time. Please avoid freeze thaw cycles.

GENE INFORMATION

Gene Name	PAPPA pregnancy-associated plasma protein A, pappalysin 1 [Homo sapiens]
Synonyms	Pappalysin-1; Pregnancy-Associated Plasma Protein-1; Insulin-like growth factor-dependent IGF binding protein-4; EC 3.4.24.79; IGF-dependent IGFBP-4 protease; IGFBP-4ase; PAPPA; PAPA; ASBABP2; DIPLA1; IGFBP-4ase; PAPP-A; PAPPA1; pregnancy-associated plasma protein A, pappalysin 1; pregnancy-associated plasma protein A; OTTHUMP00000022806; aspecific BCL2 ARE-binding protein 2; differentially placenta 1 expressed protein; 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	9q33.2
Pathway	Diabetes pathways
Function	metal ion binding; metalloproteinase activity; metalloproteinase activity; peptidase activity; zinc ion binding

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