# 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 |

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

| | |
|---|---|
| | 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; metallopeptidase activity;metallopeptidase activity; peptidase activity; zinc ion binding |

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA