

Pregnancy-Associated Plasma Protein-1 Recombinant Protein | PAPP-A recombinant protein

Recombinant Human Pregnancy-Associated Plasma Protein-1

CATALOG # AAA38668	HOST E Coli
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PRODUCT SYNONYMS

Pregnancy-Associated Plasma Protein-1; Recombinant Human Pregnancy-Associated Plasma Protein-1; PAPP A Human; Pregnancy-Associated Plasma Protein-1 Human Recombinant; Pappalysin-1; Pregnancy-associated plasma protein A; PAPP-A; Insulin-like growth factor-dependent IGF-binding protein 4 protease; IGF-dependent IGFBP-4 protease; IGFBP-4ase; PAPPA; PAPA; DIPLA1; PAPPA1; ASBABP2; PAPP-A recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95.0% as determined by SDS-PAGE.
Form/Format	PAPP-A protein is supplied in 1x PBS and 50% glycerol. Sterile Filtered clear solution.
Sequence Length	1627
Preparation and Storage	Store at 4 degree C if entire vial will be used within 2-4 weeks. Store, frozen at -20 degree C for longer periods of time. Please avoid freeze thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for PAPP-A recombinant protein	Description: PAPP-A Human Recombinant produced in E Coli is single, a non-glycosylated, Polypeptide chain containing 191 amino acids fragment (81-271) corresponding to the PAPP-A αJelly-Roll domain fragment, having a total molecular mass of 30kDa and fused with a 4.5kDa amino-terminal hexahistidine tag. The PAPP-A is purified by proprietary chromatographic techniques. Introduction: PAPPA is a large zinc binding protein, which acts as a metalloprotease and specifically cleaves IGFBP-4 and IGFBP-5, resulting in release of bound IGF. PAPP-A can also act as a regulator of IGF bioactivity in a number of biological systems, including the human ovary and cardiovascular systems. It was shown that PAPP A levels are elevated in patients with unstable angina or acute myocardial infarction. Furthermore, PAPPA is believed to be involved in local proliferative processes such as wound healing and bone remodeling. Moreover, PAPP-A is produced in high concentrations during pregnancy and is released into the maternal circulation. In placenta, PAPP A is expressed in X cells in septa and anchoring villi, and in syncytiotrophoblasts in the chorionic villi. Lower levels of PAPPA are found in an array of other tissues including kidney, myometrium, endometrium, ovaries, breast, prostate, bone marrow, colon, fibroblasts and osteoblasts. PAPP-A is present in serum and placenta during pregnancy; with levels increasing throughout pregnancy. Low levels of PAPP A are associated with a number of foetal chromosomal abnormalities, as well as pre-eclampsia and stillbirth. PAPPA levels may be a potentially highly specific marker for heart disease. PAPP-A proteolytic activity is inhibited by targeting substrate exosite binding.
Product Categories/Family for PAPP-A recombinant protein	Enzymes

NCBI AND UNIPROT INFORMATION

NCBI GI #	38045915
NCBI GeneID	5069
NCBI Accession #	NP_002572.2

NCBI GenBank Nucleotide #	NM_002581.3
UniProt Accession #	Q13219; Q08371; Q68G52; Q9UDK7; B1AMF9
Molecular Weight	180,973 Da
NCBI Official Full Name	pappalysin-1 preproprotein
NCBI Official Synonym Full Names	pregnancy-associated plasma protein A, pappalysin 1
NCBI Official Symbol	PAPPA
NCBI Official Synonym Symbols	PAPA; DIPLA1; PAPP-A; PAPPA1; ASBABP2; IGFBP-4ase
NCBI Protein Information	pappalysin-1; IGF-dependent IGFBP-4 protease; aspecific BCL2 ARE-binding protein 2; differentially placenta 1 expressed protein; insulin-like growth factor-dependent IGF binding protein-4 protease; insulin-like growth factor-dependent IGF-binding protein 4 protease; pregnancy-associated plasma protein A
UniProt Protein Name	Pappalysin-1
UniProt Gene Name	PAPPA
UniProt Synonym Gene Names	IGF-dependent IGFBP-4 protease; IGFBP-4ase; PAPP-A
UniProt Entry Name	PAPP1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/pappa-recombinant-protein-e-coli/38668>