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PAPPA
Recombinant Human PAPP-A, His Tag

Catalog No.	CS574A CS574B	**Quantity:**	10 µg 1 mg

Alternate Names: Pappalysin-1, Insulin-like growth factor-dependent IGF-binding protein 4 protease, IGF-dependent IGFBP-4 protease, IGFBP-4ase, Pregnancy-associated plasma protein A, PAPP-A

Description: PAPP-A 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, PAPP-A 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.

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 fetal chromosomal abnormalities, as well as pre-eclampsia and stillbirth.
PAPP-A levels may be a potentially highly specific marker for heart disease.

UniProt ID: Q13219

Source: *E. coli*

Molecular Mass: 25.75 kDa (119 aa, fragment 81-227) with N-terminal 6X His tag

Formulation: Sterile filtered 20mM Tris Hcl PH 8.0, 4M Urea and 50% Glycerol.

Purity: > 95% as determined by SDS-PAGE.

Storage & Stability: Store at 2-8°C for use within 2 weeks. Store unopened at -20°C to -80°C for up to 1 year. **Avoid repeated freeze-thaw cycles.**

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