

Recombinant Human PAPP-A2 / Pappalysin 2 Protein (His tag)

Cat.NO.: TP08004

3th Edition

Synonyms:PAPP-A2;PAPP-E;PAPPE;PLAC3

Description:Pappalysin-2/PAPP-A2 is the second member of the pappalysin family of metzincin superfamily, of which PAPP-A is the first member. There is no homology between the prepro-peptides of PAPP-A and PAPP-A2, but 46% of the residues of mature PAPP-A are also present in mature PAPP-A2. PAPP-A specifically cleaves insulin-like growth factor-binding protein(IGFBP)-4, one of six known modulators of IGF-I and –II, whereas PAPP-A2 specifically cleaved IGFBP-5 at one site, between Ser-143 and Lys-144. In contrast to the cleavage of IGFBP-4 by PAPP-A that strictly requires the presence of IGF, the cleavage of IGFBP-5 by PAPP-A2 was IGF-independent. Recent data firmly establish PAPP-A and IGFBP-4 as an important functional pair in several systems. Because of its close relationship with PAPP-A, both structurally and functionally, PAPP-A2 is a likely candidate for IGFBP-5 proteinase in many tissues and conditioned media where IGFBP-5 proteolysis has been reported.

Form:PBS

Molecular Weight:131 kDa

Sequences:Ser 234-Cys 1396

Purity:> 95% by HPLC

Concentration:

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.