

Recombinant Full Length Human PAPP A Protein, C-Flag-tagged

Cat. No. PAPP A-1798HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human PAPP A Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene encodes a secreted metalloproteinase which cleaves insulin-like growth factor binding proteins (IGFBPs). Following IGFBP cleavage, insulin growth factors dissociate from IGFBPs and bind to IGF receptors, resulting in activation of the IGF pathway. The encoded protein plays a role in bone formation, inflammation, wound healing and female fertility. Enhanced expression of this protein is associated with diabetic nephropathy in human patients and this protein may promote tumor invasion and growth in various human cancers.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	178.6 kDa
AA Sequence	MRLWSWVLHLGLLSAALGCGLAERPRRRARRDPRAGRPPRPAAGPATCATRAARG RRASPPPPPPPGGAW E AVRVP RRRRQQREARGATEEPSPPSRALYFSGRGEQLRL RADLELPRDAFTLQVWLRAEGGQRSPAVITGL YDKCSYISRDRGWVVGIHTISDQD NKDP RYFFSLKTDRARQVTTINAHRSYLPQWVYLAATYDGQFMKL YVNGAQVAT SGEQVGGIFSP L TQKCKVLMLGGSALNHNYRGYIEHFS LWKVARTQREILSDMETH

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GAHTA LPQLLLQENWDNVKHAWSPMKDGSSPKVEFSNAHGFLDTSLEPPLCGQT
 LCDNTEVIASYNQLSSFRQP KVVRYRVVNLIEDDHKNPTVTREQVDFQHHQLAEAF
 KQYNISWELDVLEVSNSLRRRLILANCDISKIG DENCDPECNHTLTGHDGGDCRHL
 RHPAFVKKQHNGVCDMDCNYERFNFDDGGECCDPEITNVTQTCTDPDS PHRAYLDV
 NELKNILKLDGSTHLNIFFAKSSEELAGVATWPWDKEALMHLGGIVLNPSFYGMPG
 HTHTM IHEIGHSLGLYHVFRGISEIQSCSDPCMETEPSFETGDLCDNTNPAPKHKSC
 GDPGPGNDTCGFHSFFNT PYNNFMSYADDDCTDSFTPNQVARMHCYLDLVYQGW
 QPSRKPAVALAPQVLGHTTDSVTLEWFPPIDGH FFERELGSACHLCLEGRILVQYA
 SNASSPMPCSPSGHWSPREAEGHPDVEQPCKSSVRTWSPNSAVNPHT VPPACPE
 PQGCYLELEFLYPLVPESLTIWVTFVSTDWDSSGAVNDIKLLAVSGKNISLGPQNVFC
 DVPLT IRLWDVGEEVYGIQIYTLDEHLEIDAAMLTSTADTPLCLQCKPLKYKVVDP
 LQMDVASILHLNRKFVD MDLNLGSVYQYVWITISGTEESESPAVTYIHGSGYCGDG
 IIQKDQGEQCDDMNKINGDGCSLFCRQEV FNCIDEPSRCYFHDGDGVCEEFEQKT
 SIKDCGVYTPQGFLDQWASNASVSHQDQCPGWIIIGQPAASQV CRTKVIDLSEGI
 SQHAWYPCTISYPYSQLAQTTFWLRAVFSQPMVAAAIVVHLVTDGTYYGDKQKQETIS
 V QLLDTKDQSHDLGLHVLSCRNNPLIIPVVHDLSPFYHSQAVRVSFSSPLVAISGV
 ALRSFDNFDPTLS SCQRGETYSPAEQSCVHFACEKTDCPELAVENASLNCSSSD
 RYHGAQCTVSCRTGYVLQIRRDDELIKSQ TGPSVTVTCTEGKWNKQVACEPVDCSI
 PDHHQVYAASFSCPEGTTFGSQCSFQCRHPAQLKGNNSLTTCM EDGLWSFPEAL
 CELMCLAPPPVPNADLQTARCRENKHKVGSFCKYKCKPGYHVPBGSSRKSCKKRAFK
 TQCT QDGSWQEGACVPVTCDDPPPKFHGLYQCTNGFQFNSECRKCEDSDASQG
 LGSNVIHCRKDGTWNGSFHV CQEMQGQCSVPNELNSNLKLCQPDGYAIGSECATS
 CLDHNSESIILPMNVTVRDIPHWLNPTTRVERVVCT AGLKWYPHPALIHCVKGCEPFM
 GDNYCDAINNRAFCNYDGGDCCTSTVKTKKVTPPFPMSCDLQGDACARD PQAQEH
 SRKDLRGYSHG SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining.

Stability Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Protease, Secreted Protein
Full Length	Full L.

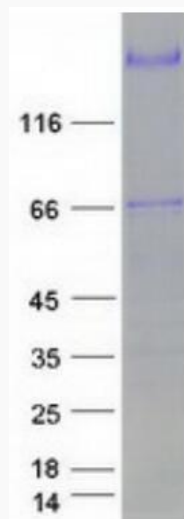
GENE INFORMATION

Gene Name	PAPPA pappalysin 1 [Homo sapiens (human)]
Official Symbol	PAPPA
Synonyms	PAPA; DIPLA1; PAPP-A; PAPPA1; ASBABP2; IGFBP-4ase
Gene ID	5069
mRNA Refseq	NM_002581.5
Protein Refseq	NP_002572.2
MIM	176385
UniProt ID	Q13219

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Coomassie blue staining of purified PAPPA protein.

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