

PAI2 active protein

PAI2 protein

CATALOG # AAA75570	HOST Human
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PRODUCT SYNONYMS

PAI2; PAI2 protein; Plasminogen Activator Inhibitor-2 protein; Urokinase Inhibitor protein; PAI 2; PAI-2 protein; PAI 2 protein; PAI-2; PAI2 active protein

PRODUCT SPECIFICATIONS

Host	Human
Purity/Purification	> 95% pure
Form/Format	Lyophilized from 50MM CH3COONa, with 100mM NaCl. Reconstitute in water to a concentration of 0.1-1.0 mg/ml.
Sequence	RegionofPA I2proteinc orrespondi ngtoaminoa cidsMEDLCV ANTLFALNLF KHLAKASPTQ NLFSPWSIS STMAMVYMGs RGSTEDQMAK VLQFNEVGAN AVTPMTPENF TSCGFMQQIQ KGSYPDAILQ AQAADKIHSS FRSLSSAINA STGNLLESV NKLFGESAS FREEYIRLCQ KYYSSEPQAV DFLECAEEAR KKINSWVKTQ TKGKIPNLLP EGSVDGDTRM VLVNAVYFKG KWKTPFEKKL NGLYPFRVNS AQRTPVQMMY LREKLNIGYI EDLKAQILEL PYAGDVSMFL LLPDEIADVS TGLELLESEI TYDKLNKWTs KDKMAEDEVE VYIPQFKLEE HYELRSILRS MGMEDAFNKG RANFSGMSER NDLFLSEVFH QAMVDVNEEG TEAAAGTGGV MTGRTGHGGP QFVADHPFLF LIMHKITNCI LFFGRFSSP.
Sequence Length	415
Protein Type	Recombinant
Biological Significance	PAI-2 is an inhibitory serpin expressed mainly in keratinocytes, activated monocytes, and placental trophoblasts. It exists predominantly as a 47 kDa nonglycosylated intracellular protein which can be induced to be secreted as 60 kDa glycoprotein. The glycosylated and unglycosylated forms of PAI-2 are equally effective as inhibitors of urokinase-type plasminogen activator (uPA), the only established physiological target of this serpin. PAI-2 has a unique ability to form dormant polymers spontaneously and reversibly under physiological conditions.
Bioactivity	Determined by its inhibitory effect against single chain tPA induced cleavage of a chromogenic substrate in Imidazole Buffer at 370C. Half maximal inhibition against 1.0 ug/ml of single chain tPA was obtained at a concentration of 1.0 ug/ml
Endotoxin Levels	Endotoxin level is less than 0.1 ng per ug (1 EU/ug).
Expression System	E Coli
Preparation and Storage	Store at 4 degree C until reconstitution. Following reconstitution aliquot and freeze at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for PAI2 active protein	Purified recombinant Human PAI2 protein
Product Categories/Family for PAI2 active protein	Proteases ; Inhibitors ; & Enzymes

NCBI AND UNIPROT INFORMATION

NCBI GI #	219689110
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NCBI GeneID	5055
NCBI Accession #	NP_001137290.1
NCBI GenBank Nucleotide #	NM_001143818.1
UniProt Accession #	P05120; Q96E96
Molecular Weight	46,596 Da
NCBI Official Full Name	plasminogen activator inhibitor 2
NCBI Official Synonym Full Names	serpin peptidase inhibitor, clade B (ovalbumin), member 2
NCBI Official Symbol	SERPINB2
NCBI Official Synonym Symbols	PAI; PAI2; PAI-2; PLANH2; HsT1201
NCBI Protein Information	plasminogen activator inhibitor 2
UniProt Protein Name	Plasminogen activator inhibitor 2
UniProt Gene Name	SERPINB2
UniProt Synonym Gene Names	PAI2; PLANH2; PAI-2
UniProt Entry Name	PAI2_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/human-active-protein/pai2/75570>