

Native Human Human SERPINE1

Cat. No. PLAU-31777TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Full length Human PAI1 reacted with full length Human PLAU; MWt 97 kDa.
Species	Human
Source	E.coli
Description	This gene encodes a serine protease involved in degradation of the extracellular matrix and possibly tumor cell migration and proliferation. A specific polymorphism in this gene may be associated with late-onset Alzheimers disease and also with decreased affinity for fibrin-binding. This protein converts plasminogen to plasmin by specific cleavage of an Arg-Val bond in plasminogen. Plasmin in turn cleaves this protein at a Lys-Ile bond to form a two-chain derivative in which a single disulfide bond connects the amino-terminal A-chain to the catalytically active, carboxy-terminal B-chain. This two-chain derivative is also called HMW-uPA (high molecular weight uPA). HMW-uPA can be further processed into LMW-uPA (low molecular weight uPA) by cleavage of chain A into a short chain A (A1) and an amino-terminal fragment. LMW-uPA is proteolytically active but does not bind to the uPA receptor. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 0.1M Sodium chloride, 0.1M HEPES, pH 7.4

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Full Length	Full L.
GENE INFORMATION	
Gene Name	PLAU plasminogen activator, urokinase [Homo sapiens]
Official Symbol	PLAU
Synonyms	PLAU; plasminogen activator, urokinase; urokinase-type plasminogen activator; UPA; URK;
Gene ID	5328
mRNA Refseq	NM_001145031
Protein Refseq	NP_001138503
MIM	191840
Uniprot ID	P00749
Chromosome Location	10q24
Pathway	ATF-2 transcription factor network, organism-specific biosystem; Blood Clotting Cascade, organism-specific biosystem; Complement and Coagulation Cascades, organism-specific biosystem; Complement and coagulation cascades, organism-specific biosystem; Complement and coagulation cascades, conserved biosystem;

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Function

peptidase activity; protein binding; serine-type endopeptidase activity;

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