

Recombinant Human PLAU

Cat. No. PLAU-30029TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 21-177 of Human Urokinase expressed in insect cells. Predicted mwt: 18 kDa; observed mwt: 54 kDa;
Species	Human
ProteinLength	21-177 a.a.
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.
Tissue specificity	Expressed in the prostate gland and prostate cancers.
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: 0.02% Sodium AzideConstituents: 0.1M Sodium chloride, 0.05M

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	Sodium acetate, 1mM EDTA, pH 5.0
Storage	Store at +4°C.
Sequence Similarities	Belongs to the peptidase S1 family.Contains 1 EGF-like domain.Contains 1 kringle domain.Contains 1 peptidase S1 domain.
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-

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specific biosystem; Complement and coagulation cascades, conserved biosystem;

Function

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

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