

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	<p>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.</p>
Tissue specificity	Expressed in the prostate gland and prostate cancers.
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: 0.02% Sodium Azide Constituents: 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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