

Recombinant Human Plasminogen Activator, Urokinase

Cat. No. PLAU-2467H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human plasminogen activator, urokinase was expressed in <i>Insect Cells</i> . MW=18.5 KDa.
Species	Human
Source	Insect Cells
Description	Urokinase-type plasminogen activator is an enzyme that in humans is encoded by the PLAU gene. 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 Alzheimer disease and also with decreased affinity for fibrin-binding. The protein encoded by this gene converts plasminogen to plasmin by specific cleavage of an Arg-Val bond in plasminogen. This gene's proprotein is cleaved at a Lys-Ile bond by plasmin 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.
Concentration	1.0 mg/ml.
Volume	0.1 ml.

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Buffer	0.1 M Hepes; 0.1 M NaCl; pH 7.4.
Form	Frozen liquid.
Shipping Information	Recommended Storage: -70°C; Shipping Conditions: Dry ice; Minimum Shelf Life: 3 years from delivery.

GENE INFORMATION

Gene Name	PLAU plasminogen activator, urokinase [Homo sapiens]
Synonyms	PLAU; plasminogen activator, urokinase; ATF; UPA; URK; u-PA; U-plasminogen activator; plasminogen activator, urinary; urokinase-type plasminogen activator; EC 3.4.21.73; Urokinase-type plasminogen activator long chain A; Urokinase-type plasminogen activator short chain A; Urokinase-type plasminogen activator chain B
Gene ID	5328
mRNA Refseq	NM_001145031
Protein Refseq	NP_001138503
MIM	191840
UniProt ID	P00749
Chromosome Location	10q24
Pathway	Complement and coagulation cascades

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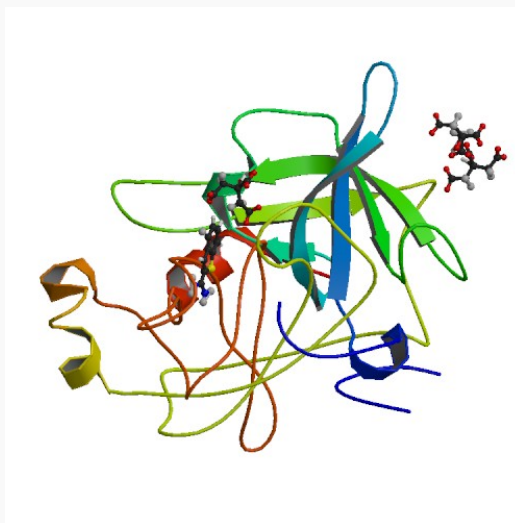
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Function

peptidase activity; serine-type endopeptidase a activity

PDB rendering based
on 1c5w.



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