

# Recombinant Human Plasminogen Activator, Urokinase

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

## SPECIFICATION

|                         |   |
|-------------------------|---|
| <b>Product Overview</b> | Recombinant Human plasminogen activator, urokinase was expressed in <i>Insect Cells</i> . MW=18.5 KDa.  |
| <b>Species</b>          | Human   |
| <b>Source</b>           | Insect Cells  |
| <b>Description</b>      | <p>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.</p> |
| <b>Concentration</b>    | 1.0 mg/ml.  |
| <b>Volume</b>           | 0.1 ml.   |

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|                             |   |
|-----------------------------|---|
| <b>Buffer</b>               | 0.1 M HEPES; 0.1 M NaCl; pH 7.4.  |
| <b>Form</b>                 | Frozen liquid.  |
| <b>Shipping Information</b> | Recommended Storage: -70°C; Shipping Conditions: Dry ice; Minimum Shelf Life: 3 years from delivery.  |
| <b>GENE INFORMATION</b>     |   |
| <b>Gene Name</b>            | PLAU plasminogen activator, urokinase [ Homo sapiens ]  |
| <b>Synonyms</b>             | 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 |
| <b>Gene ID</b>              | 5328  |
| <b>mRNA Refseq</b>          | NM_001145031  |
| <b>Protein Refseq</b>       | NP_001138503  |
| <b>MIM</b>                  | 191840  |
| <b>UniProt ID</b>           | P00749  |
| <b>Chromosome Location</b>  | 10q24   |
| <b>Pathway</b>              | Complement and coagulation cascades   |

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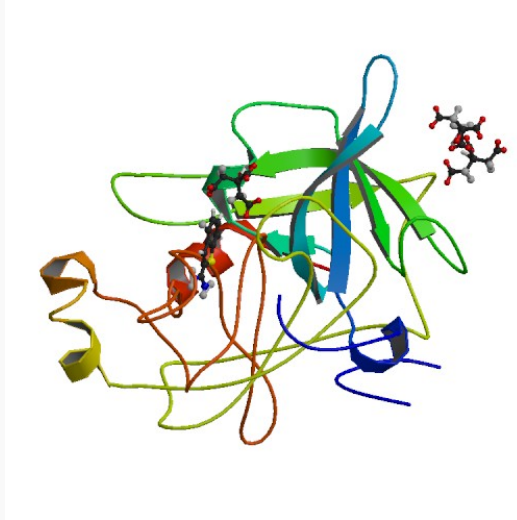
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**Function**

peptidase activity; serine-type endopeptidase a activity

PDB rendering based  
on 1c5w.



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