

# Recombinant Mouse Plasminogen Activator, Urokinase

**Cat. No.** Plau-5464M    **Lot. No.** (See product label)

## SPECIFICATION

|                         |   |
|-------------------------|---|
| <b>Product Overview</b> | Recombinant Mouse High Molecular Weight two-chain Urokinase Active.   |
| <b>Species</b>          | Mouse   |
| <b>Source</b>           | Insect Cells  |
| <b>Description</b>      | <p>Plau 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. Plau 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 Plau. Plau can be further processed into LMW- Plau (low molecular weight Plau) by cleavage of chain A into a short chain A (A1) and an amino-terminal fragment. LMW- Plau is proteolytically active but does not bind to the Plau receptor.</p> |
| <b>Form</b>             | Liquid in 0.05 M sodium acetate + 0.1 M NaCl + 1 mM EDTA, pH 5.0  |
| <b>Molecular Weight</b> | 44.0 kDa  |
| <b>Concentration</b>    | 2.0 mg/ml   |
| <b>Storage</b>          | Store in working aliquots at -80°C. Avoid repeated freeze-thaw cycles.  |

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**OfficialSymbol** Plau

## GENE INFORMATION

**Gene Name** Plau plasminogen activator,urokinase [ *Mus musculus* ]

**Synonyms** Plau; plasminogenactivator, urokinase; PA; u-PA; urokinase-type plasminogen activator;U-plasminogen activator; EC 3.4.21.73

**Gene ID** 18792

**mRNA Refseq** NM\_008873

**Protein Refseq** NP\_032899

**UniProt ID** P06869

**Chromosome Location** 14 A3; 14 2.5 cM

**Pathway** Blood ClottingCascade; Complement and Coagulation Cascades; Dissolution of Fibrin Clot;Endochondral Ossification; Hemostasis; Wnt Signaling Pathway; Wnt SignalingPathway and Pluripotency

**Function** catalytic activity;hydrolase activity; kinase activity; peptidase activity; serine-typeendopeptidase activity; serine-type peptidase activity

**PDB rendering basedon 1c5w.**

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