

Recombinant Mouse Plasminogen Activator, Urokinase

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

SPECIFICATION

Product Overview	Recombinant Mouse High Molecular Weight two-chain Urokinase Active.
Species	Mouse
Source	Insect Cells
Description	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.
Form	Liquid in 0.05 M sodium acetate + 0.1 M NaCl + 1 mM EDTA, pH 5.0
Molecular Weight	44.0 kDa
Concentration	2.0 mg/ml
Storage	Store in working aliquots at -80°C. Avoid repeated freeze-thaw cycles.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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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