

Recombinant Rat Plasminogen Activator, Urokinase

Cat. No. Plau-1297R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	RecombinantRat High Molecular Weight two-chain Plau.
Species	Rat
Source	Insect Cells
Description	<p>Plausan enzyme that in humans is encoded by the Plau gene. This gene encodes aserine protease involved in degradation of the extracellular matrix andpossibly tumor cell migration and proliferation. A specific polymorphism inthis gene may be associated with late-onset Alzheimer disease and also withdecreased affinity for fibrin-binding. The protein encoded by this geneconverts plasminogen to plasmin by specific cleavage of an Arg-Val bond inplasminogen. This gene"s proprotein is cleaved at a Lys-Ile bond by plasminto form a two-chain derivative in which a single disulfide bond connects theamino-terminal A-chain to the catalytically active, carboxy-terminal B-chain.</p>
Formulation	Frozen liquid in 0.05M Sodium Acetate+0.1M NaCl+1mM EDTA, pH 5.0.
Molecular Weight	44.0 kDa
Concentration	2.0 mg/mL
Storage	Store in workingaliquots at -80°C. Avoid repeated freeze-thaw cycles.
OfficialSymbol	Plau

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GENE INFORMATION

Gene Name	Plauplasminogen activator, urokinase [<i>Rattus norvegicus</i>]
Synonyms	Plau; plasminogenactivator, urokinase; UPAM; MGC124931; urokinase-typeplasminogen activator; uPA; U-plasminogen activator; Urinary plasminogenactivator, urokinase
Gene ID	25619
mRNA Refseq	NM_013085
Protein Refseq	NP_037217
UniProt ID	Q3KR76
Chromosome Location	15p16
Pathway	BloodClotting Cascade; Complement and Coagulation Cascades; Complement andcoagulation cascades; Dissolution of Fibrin Clot; Endochondral Ossification;Hemostasis; Wnt Signaling Pathway; Wnt Signaling Pathway and Pluripotency
Function	kinase activity; peptidase activity; serine-typeendopeptidase activity
PDBrendering based on 1c5w.	

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