

Active Recombinant Mouse PLAU protein, His-tagged

Cat. No. PLAU-12913M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Mouse PLAU protein(P06869)(21~433 aa), fused with N-terminal His tag, was expressed in HEK293.
Species	Mouse
Source	HEK293
ProteinLength	21-433 aa
Form	Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	Urokinase Plasminogen Activator (uPA), also known as u-plasminogen activator or urokinase, is a highly-specific serine protease from the peptidase S1 family that cleaves plasminogen to form plasmin making it a key player in the plasminogen activator (PA) system. Expression of uPA is minimal in normal cells but is increased several fold in tumor cells by extracellular stimuli elevated in cancer and corresponds to poor outcomes in several types of cancer. Therefore, uPA has been identified as an excellent target for therapeutic development through inhibition of protease activity or through inhibition of uPA-dependent signaling while in complex with uPA receptor (uPAR). The activity assay of uPA was measured by its ability to cleave a peptide substrate, N-carboxybenzyloxymethyl-Gly-Gly-Arg-7-amido-4-methylcoumarin (Z-GGR-AMC). The reaction was performed in 50 mM Tris, 0.01% Tween-20, pH 8.5 (Assay Buffer), initiated by addition of 50 µL of 1.5 ug/ml uPA (diluted by Assay Buffer) to 50 µL of 200 uM Substrate. Read a

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t excitation and emission wavelengths of 380 nm and 460 nm (top read), respectively, in kinetic mode for 5 minutes. The specific activity of recombinant mouse uPA is >2000 pmol/min/g.

Molecular Mass 48.3kDa

Endotoxin <1.0EU per 1µg (determined by the LAL method).

Purity > 90% as determined by SDS-PAGE.

Storage Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.

Reconstitution Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name [Plau plasminogen activator, urokinase \[Mus musculus \]](#)

Official Symbol [PLAU](#)

Synonyms PLAU; plasminogen activator, urokinase; urokinase-type plasminogen activator; U-plasminogen activator; uPA; u-PA;

Gene ID [18792](#)

mRNA Refseq [NM_008873](#)

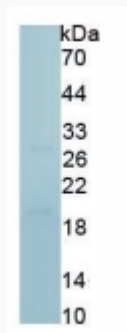
Protein Refseq [NP_032899](#)

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SDS-PAGE



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