

# Biotinylated Human PLAU/uPA Protein (active form)

Cat. No. PLA-HM401B

## Description

<b>Source</b>	Recombinant Biotinylated Human PLAU/uPA Protein (active form) is expressed from HEK293 with His tag and Avi tag at the C-Terminus.
<b>Accession</b>	P00749-1
<b>Molecular Weight</b>	The protein has a predicted MW of 49.3 kDa. Due to protein lysis and glycosylation, the protein migrates to 24-26 kDa(long chain A), 35-38 kDa(chain B) and 52-60 kDa(long chain A&chain B) based on Tris-Bis PAGE result.
<b>Endotoxin</b>	Less than 1EU per ug by the LAL method.
<b>Purity</b>	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

## Formulation and Storage

<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

Plasminogen activator, urokinase (uPA) is a secreted serine protease whose Dysregulation is often accompanied by various cancers. PLAU inhibition could suppress tumor growth. Collectively, PLAU is necessary for tumor progression and can be a diagnostic and prognostic biomarker in HNSCC.

## Assay Data

### Tris-Bis PAGE



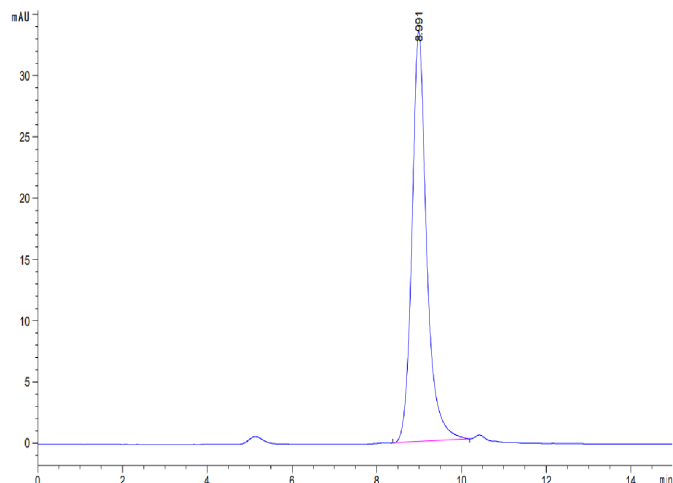
Biotinylated Human PLAU on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

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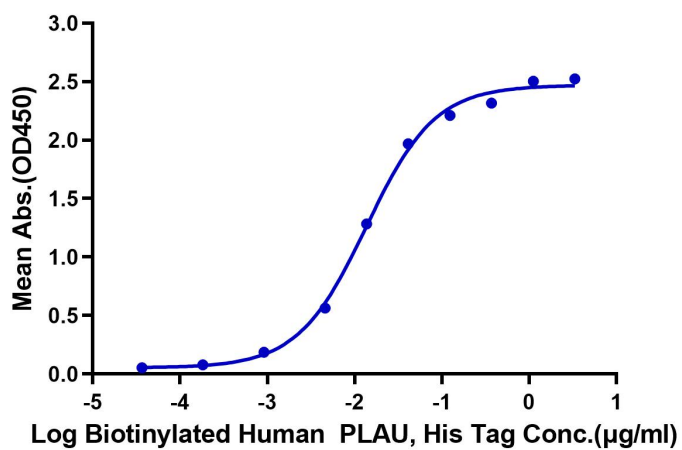


The purity of Biotinylated Human PLAU is greater than 95% as determined by SEC-HPLC.

## ELISA Data

### Biotinylated Human PLAU, His Tag ELISA

0.1  $\mu$ g Human uPAR, hFc Tag Per Well



Immobilized Human uPAR, hFc Tag at 1  $\mu$ g/ml (100  $\mu$ l/well) on the plate. Dose response curve for Biotinylated Human PLAU, His Tag with the EC50 of 13.6ng/ml determined by ELISA.