

# Human PLAU/uPA Protein (pro form)

Cat. No. PLA-HM102

## Description

<b>Source</b>	Recombinant Human PLAU/uPA Protein (pro form) is expressed from HEK293 with His tag at the C-Terminus. It contains Ser21-Leu431.
<b>Accession</b>	P00749-1
<b>Molecular Weight</b>	The protein has a predicted MW of 47.5 kDa. Due to glycosylation, the protein migrates to 52-60 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per $\mu\text{g}$ by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

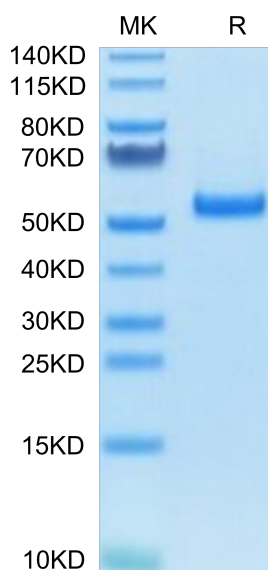
<b>Formulation</b>	Lyophilized from 0.22 $\mu\text{m}$ filtered solution in 25mM HEPES, 150mM NaCl (pH 7.5). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ 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. -80°C for 3 months 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

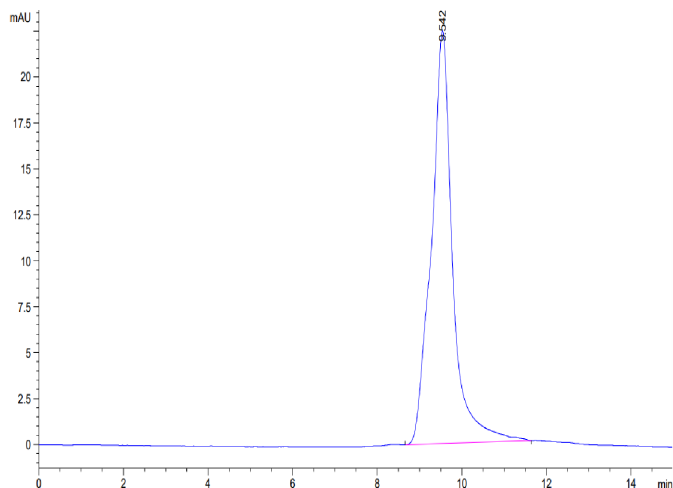
### Bis-Tris PAGE



Human PLAU (pro form) on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

Assay Data

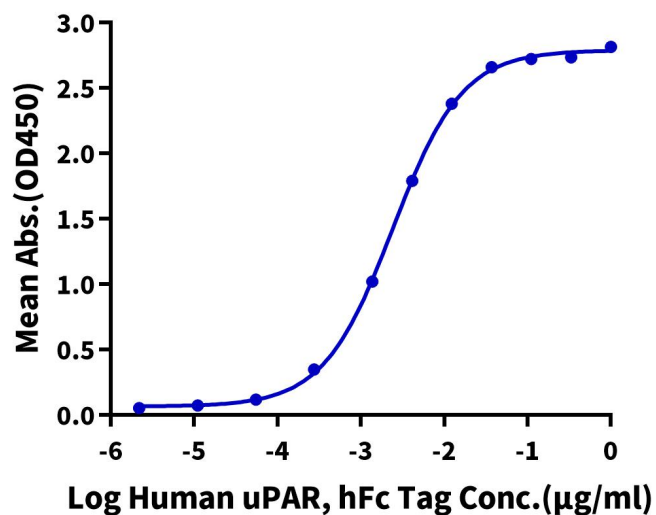


The purity of Human PLAU (pro form) is greater than 95% as determined by SEC-HPLC.

ELISA Data

**Human PLAU, His Tag ELISA**

0.05µg Human PLAU, His Tag Per Well



Immobilized Human PLAU, His Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Human uPAR, hFc Tag with the EC50 of 2.4ng/ml determined by ELISA.