

# Rat PLAU/uPA Protein

Cat. No. PLA-RM101

## Description

<b>Source</b>	Recombinant Rat PLAU/uPA Protein is expressed from HEK293 with His tag at the C-terminus. It contains Gly20-Phe432.
<b>Accession</b>	NP_037217.3
<b>Molecular Weight</b>	The protein has a predicted MW of 46.91 kDa. The protein migrates to 30-35 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 90% as determined by HPLC

## Formulation and Storage

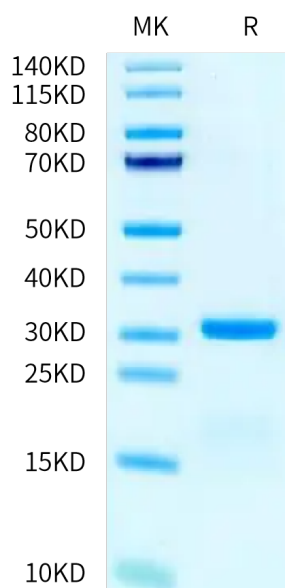
<b>Formulation</b>	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3-6 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

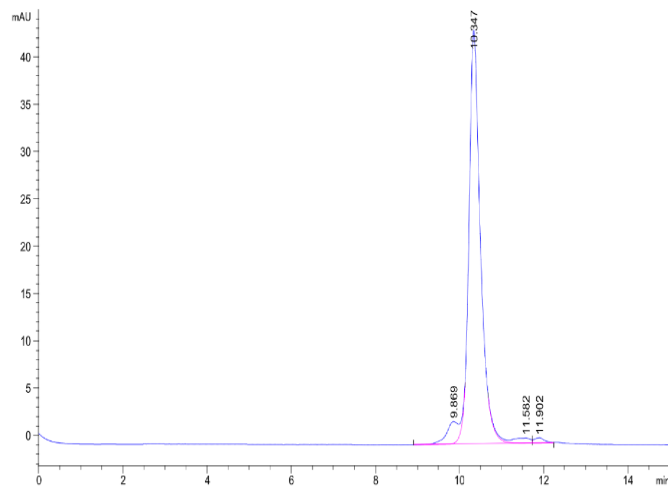
### Bis-Tris PAGE



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

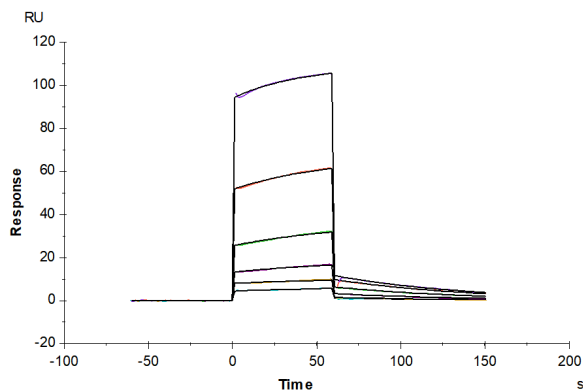
### SEC-HPLC

Assay Data



The purity of Rat PLAU is greater than 90% as determined by SEC-HPLC.

SPR Data



Human uPAR, hFc Tag captured on CM5 Chip via Protein A can bind Rat PLAU, His Tag with an affinity constant of 4.31  $\mu$ M as determined in SPR assay (Biacore T200).