

# Cynomolgus PLAU/uPA Protein (active form)

Cat. No. PLA-CM101

## Description

<b>Source</b>	Recombinant Cynomolgus PLAU/uPA Protein (active form) is expressed from HEK293 with His tag at the C-Terminus. It contains Ser21-Leu430, which consists of two chains: Long chain A and chain B. The long chain A is further cleaved to yield a short chain A and N-Terminus fragment.
<b>Accession</b>	A0A2K5WND1
<b>Molecular Weight</b>	The protein has a predicted MW of 47.23 kDa. Due to protein lysis and glycosylation, the protein migrates to 23-25 kDa, 35-40 kDa and 50-60 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 > 95% as determined by HPLC

## Formulation and Storage

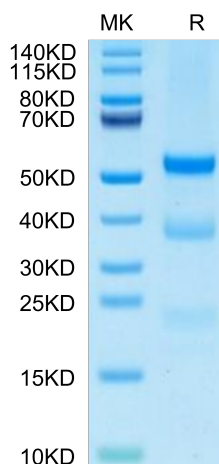
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein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

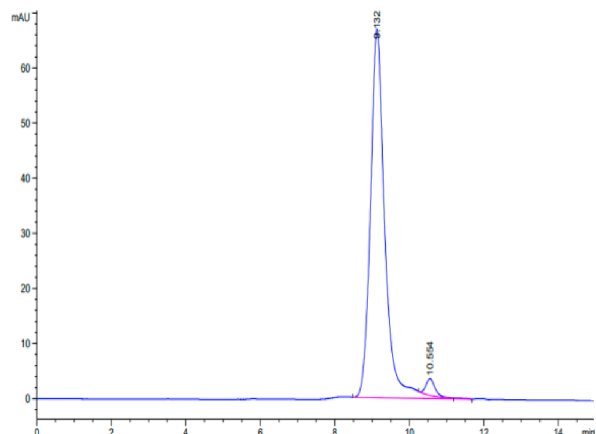
## Assay Data

### Bis-Tris PAGE



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

### SEC-HPLC



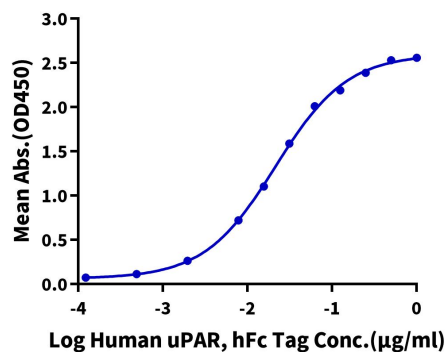
The purity of Cynomolgus PLAU (active form) is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

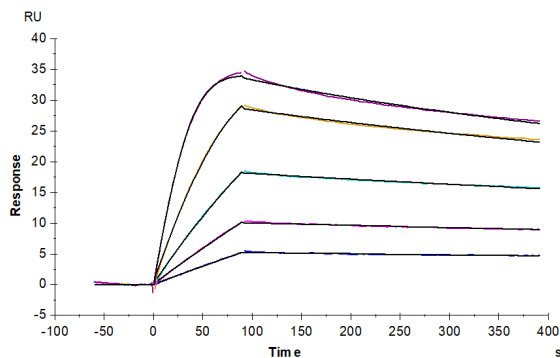
**Cynomolgus PLAU, His Tag ELISA**

0.2µg Cynomolgus PLAU, His Tag Per Well



Immobilized Cynomolgus PLAU, His Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Human uPAR, hFc Tag with the EC50 of 21.4ng/ml determined by ELISA (QC Test).

SPR Data



Cynomolgus uPAR, His Tag immobilized on CM5 Chip can bind Cynomolgus PLAU, His Tag with an affinity constant of 0.033 nM as determined in SPR assay (Biacore T200).

Bioactivity Data

Measured by its ability to cleave a peptide substrate, N-carbobenzyloxy-Gly-Gly-Arg-7-amido-4-methylcoumarin (Z-GGR-AMC). The specific activity is >2000 pmol/min/µg (QC Test).