

# Human PLAU/uPA Protein (pro form)

Cat. No. PLA-HM102

## Description

|                  |                                                                                                                                     |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Source           | Recombinant Human PLAU/uPA Protein (pro form) is expressed from HEK293 with His tag at the C-Terminus.<br>It contains Ser21-Leu431. |
| Accession        | P00749-1                                                                                                                            |
| Molecular Weight | 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.  |
| Endotoxin        | Less than 1 EU per µg by the LAL method.                                                                                            |
| Purity           | > 95% as determined by Bis-Tris PAGE<br>> 95% as determined by HPLC                                                                 |

## Formulation and Storage

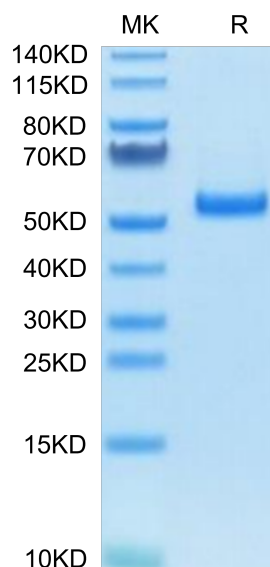
|                |                                                                                                                                                                                                                         |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Formulation    | Lyophilized from 0.22µm filtered solution in 25mM HEPES, 150mM NaCl (pH 7.5). Normally 8% trehalose is added as protectant before lyophilization.                                                                       |
| Reconstitution | Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.                                                                                             |
| Storage        | -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

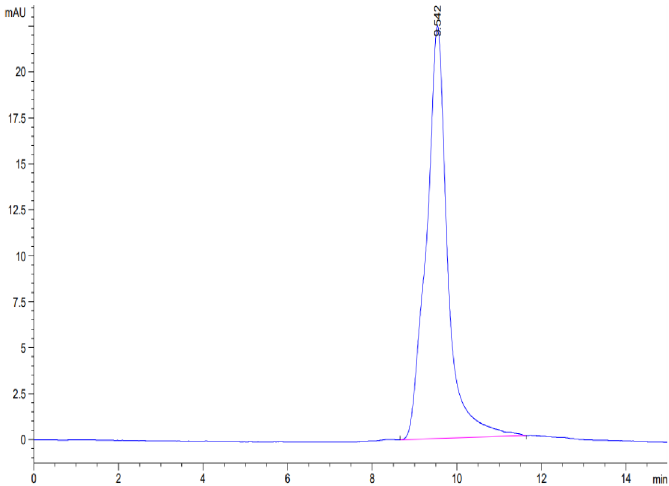
### Bis-Tris PAGE



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

### SEC-HPLC

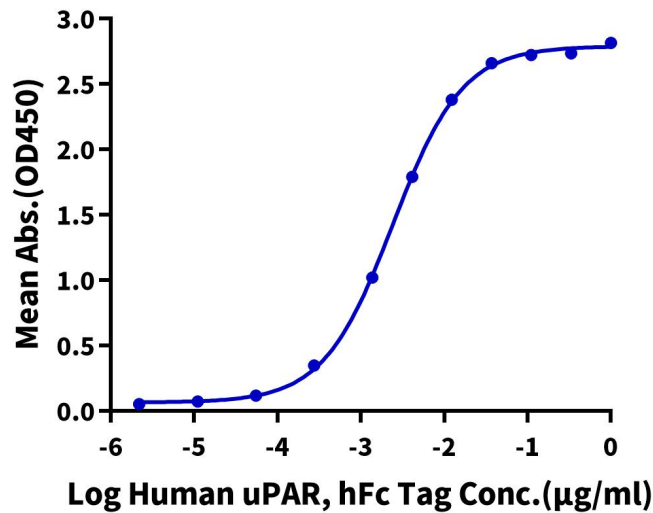
Assay Data



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.