

## PLAU/uPA Protein (active form), Cynomolgus, Recombinant (His)

## General Information

Synonyms:	URK;ATF;UPA;u-PA;Urokinase;QPD;PLAU;BDPLT5
Protein Construction:	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.
Species:	Cynomolgus
Expression Host:	HEK293 Cells
Accession:	A0A2K5WND1
Molecular Weight:	47.23 kDa (predicted). Due to protein lysis and glycosylation, the protein migrates to 23-25 kDa (long chain A), 35-40 kDa (chain B) and 50-60 kDa (long chain A&chain B) based on Tris-Bis PAGE result.

## QC Testing

Biological Activity:	1. Immobilized Cynomolgus PLAU, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Human uPAR, hFc Tag with the EC50 of 25.1ng/ml determined by ELISA. 2. 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.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

## Preparation and Storage

Reconstitution:	Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.
Stability & Storage:	It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots. <small>Actual storage temperature shall be subject to the COA.</small>
Shipping:	In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

## Protein Background

Plasminogen activator, urokinase (uPA) is a secreted serine protease whose Dysregulation is often accompanied

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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.

### Reference

Chen G, et al. PLAU Promotes Cell Proliferation and Epithelial-Mesenchymal Transition in Head and Neck Squamous Cell Carcinoma. *Front Genet.* 2021 May 20;12:651882. doi: 10.3389/fgene.2021.651882. PMID: 34093649; PMCID: PMC8173099.

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