

# UPA/PLAU, Human CellExp™, human recombinant

**CATALOG #:** 7248-10 10 µg  
7248-50 50 µg

**ALTERNATE NAMES:** Urokinase, PLAU, ATF, UPA, URK, u-PA, BDPLT5, QPD

**SOURCE:** HEK 293 cells (Ser 21 - Leu 431)

**PURITY:** ≥ 92% by SDS-PAGE gel

**MOL. WEIGHT:** This protein is fused with a polyhistidine tag at the C-terminus, and has a calculated MW of 45.0 kDa. The protein migrates as 45-60 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation. Please note that the protein is not activated by protease digestion. In vitro activation is generally recommended for higher activity.

**ENDOTOXIN LEVEL:** <1 EU/µg by LAL method

**FORM:** Lyophilized

**FORMULATION:** Lyophilized from 0.22 µm filtered solution in 50 mM Sodium Acetate, 100 mM NaCl, pH5.0. Normally trehalose is added as protectant before lyophilization.

**STORAGE CONDITIONS:** Store at -20°C. After reconstitution, aliquot and store at -70°C and use within 3 months. Avoid repeated freezing and thawing cycles.

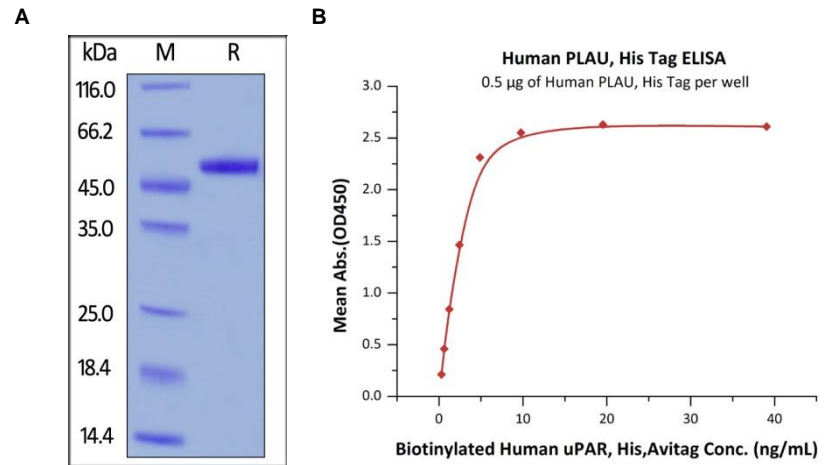
**RECONSTITUTION:** Centrifuge the vial prior to opening. Reconstitute in deionized water. Do not vortex. For extended storage, it is recommended to store at -70°C.

**DESCRIPTION:** Urokinase - type plasminogen activator is also known as PLAU and UPA, a serine protease with an extremely limited substrate specificity, cleaving the sequence Cys – Pro – Gly - Arg560 - Val561 – Val – Gly – Gly – Cys in plasminogen to form plasmin. uPA is a potent marker of invasion and metastasis in a variety of human cancers

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associated with breast, stomach, colon, bladder, ovary, brain and endometrium. uPA and its receptor (uPAR) have been implicated in a broad spectrum of pathophysiological processes, including fibrinolysis, proteolysis, inflammation, atherogenesis and plaque destabilization, all of which are involved in the pathogenesis of MI (myocardial infarction).

**BIOLOGICAL ACTIVITY:** Immobilized Human PLAU, His Tag at 5 µg/mL (100 µl/well) can bind Biotinylated Human uPAR, His, Avitag with a linear range of 0.3-2 ng/mL



**Fig. A.** Human PLAU, His Tag on SDS-PAGE under reducing (R) condition

**Fig. B.** Immobilized Human PLAU, His Tag at 5 µg/mL (100 µl/well) can bind Biotinylated Human uPAR, His, Avitag with a linear range of 0.3-2 ng/mL

## RELATED PRODUCTS:

- Urokinase, Human (**Cat. No. 4793-100, -1000**)
- Urokinase Antibody (**Cat. No. 5793-100**)
- Urokinase Activity Fluorometric Assay Kit (**Cat. No. K728-100**)
- Urokinase Inhibitor Screening Kit (Fluorometric) (**Cat. No. K727-100**)
- Honokiol (**Cat. No. 1762-10, -50**)
- uPAR Antibody (**Cat. No. 3440-100**)
- uPAR Antibody (**Cat. No. 3722-100**)

**FOR RESEARCH USE ONLY! Not to be used in humans.**