Recombinant Human uPA/PLAU Protein

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Catalog No.: RP00146LQ Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 5328 P00749

Tags

C-His

Synonyms

PLAU;ATF;BDPLT5;QPD;UPA;URK;u-PA;urokinase

Product Information

Source Purification HEK293 cells ≥ 95 % as

determined by SDS-PAGE.

Calculated MW Observed MW

49.36 kDa 55 kDa

Endotoxin

< 0.1 EU/ μ g of the protein by LAL method.

Formulation

Supplied as a 0.22 µm filtered solution in 20mM HEPES, 150mM NaCl, 2mM CaCl, 10% Glycerol, pH 7.5Contact us for customized product form or formulation.

Reconstitution

Contact

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Background

Plasminogen activator, urokinase, also known as PLAU and uPA, is a serine protease which converts plasminogen to plasmin, a broad-spectrum protease active on extracellular matrix (ECM) components. It is involved in complement activation, cell migration, wound healing, and generation of localized extracellular proteolysis during tissue remodelling, pro-hormone conversion, carcinogenesis and neoplasia. 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). The role of uPA is not only does it as a kind of enzyme, but also is breast cancer, stomach cancer, colon cancer, bladder cancer, ovarian cancer, brain, and endometrial cancer markers for a strong invasion and metastasis. Because of the causal involvment of uPA in cancer invasion and metastasis, the blockade of uPA interactions and activity with specific inhibitors is of interest for novel strategies in cancer therapy.

Basic Information

Description

Recombinant Human uPA/PLAU Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Met1-Leu431) of human Urokinase/PLAU (Accession $\#NP_002649.1$) fused with a $8\times$ His tag at the C-terminus.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Human uPAR Protein at 1 μ g/mL (100 μ L/well) can bind PLAU with a linear range of 0.031-1.014 ng/mL.

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

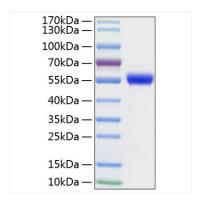
Storage

Store at -70° C. This product is stable at $\leq -70^{\circ}$ C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature. Avoid repeated freeze-thaw cycles. Avoid repeated freeze/thaw cycles.

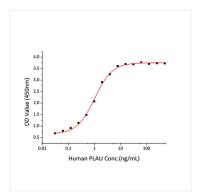
Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

Validation Data



Recombinant Human uPA/PLAU Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



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