Recombinant Human Urokinase/uPA protein (His Tag)

Catalog Number: PDMH100427

Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

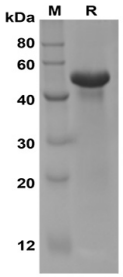
Description

Species	Human
Source	HEK293 Cells-derived Human Urokinase protein Met1-Leu431, with an C-terminal His
Calculated MW	47.3 kDa
Observed MW	47 kDa
Accession	P00749
Bio-activity	Not validated for activity

Properties

Purity	> 95% as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU/mg of the protein as determined by the LAL method
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 ℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with 5% Trehalose and 5% Mannitol.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5 mg/mL. Concentration is measured by UV-Vis.

Data



SDS-PAGE analysis of Human Urokinase/uPA proteins, 2μg/lane of Recombinant Human Urokinase/uPA proteins was resolved with SDS-PAGE under reducing conditions, showing bands at 47 KD.

Background

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Recombinant Human Urokinase-Type Plasminogen Activator is a serine protease, which specifically cleaves the zymogen plasminogen to form the active enzyme plasmin. Urokinase-Type Plasminogen Activator is a potent marker of invasion and metastasis in many human cancers associated with breast, colon, stomach, bladder, brain, ovary and endometrium. Human Urokinase-Type Plasminogen Activator is initially synthesized as 431 amino acid precursor with a N-terminal signal peptide residues. The single chain molecule is processed into a disulfide-linked two-chain molecule. There exists two forms A chain, the long A chain contains an EGF-like domain that is responsible for binding of the uPA receptor. The B chain corresponds to the catalytic domain.

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