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UTI Human

Urinary Trypsin Inhibitor-Ulinastatin Human
NTP0064

Product Overview

Name	UTI Human

Description

Urinary Trypsin Inhibitor-Ulinastatin Human

Synonyms

UTI, Ulinastatin, Urinary Trypsin Inhibitor.

Introduction

Urinary-Trypsin Inhibitor is a glucoprotein proteinase inhibitor which inhibits the activity of trypsin, chymotrypsin, lactate, lipase, hyaluronidase and various pancreatic enzymes. Ulinastatin is effective for acute pancreatitis, chronic recurrent pancreatitis and hemorrhagic, traumatic and endotoxic shocks. Ulinastatin is has strong inhibition effect to various protease, sugar and fat hydrolase. Ulinastatin precursor is proteolytically processed into distinct functioning proteins. Urinary trypsin inhibitor belongs to the superfamily of Kunitz-type protease inhibitors and plays an important role in many physiological and pathological processes. Uristatin gene is located on chromosome 9 in a cluster of lipocalin genes. High levels of Ulinastatin secretion is an early marker of renal tubular involvement and has radical scavenging activity. Bikunin localizes cell membrane. Free uristatin and bikunin pass readily into urine and are primarily bound to heavy chains that constitute the proinhibitor form in plasma. UTI has a calculated Mw of approx. 20kDa and 40kDa by SDS-PAGE analysis. Ulinastatin particularly interacts with ORF3 protein of hepatitis E virus and in charge for enhancing alpha microglobulin export from the hepatocyte.

Source

Human Urine.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation

Lyophilized from a (1mg/ml) solution containing no additives.

Stability

Store the lyophilized UTI between 2-8°C, do not freeze. Upon reconstitution UTI should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

Biological Activity

Human UTI has an activity of 2350IU/mg.

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Solubility

It is recommended to reconstitute the lyophilized UTI in sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

References

Title: Ulinastatin as a Potential Alternative Therapy for Stevens-Johnson Syndrome/Toxic Epidermal Necrolysis Publication: "Journal of Asian Medical Students'' Association 4.1 (2015): 25-39. Link: http://www.j-amsa.amsa-international.org/index.php/main/article/view/75/52

Precautions

UTI Human is for research use only and not for use in diagnostic or therapeutic procedures.