
Product Data Sheet

Product Name: UTI Human
Cat. No.: GP24954
Batch No.: 1

Product Data

Purity	>98%	Source	Human Urine.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	UTI; Ulinastatin; Urinary Trypsin Inhibitor.		
Solubility	It is recommended to reconstitute the lyophilized UTI in sterile 18MΩ-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a (1mg/ml) solution containing no additives.		

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 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. Ulinastatin 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 ulinastatin 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 is in charge for enhancing alpha microglobulin export from the hepatocyte.

Biological Activity

Human UTI has an activity of 2350IU/mg.

Caution: Product has not been fully validated for medical applications. For research use only.

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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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.

Background

Ulinastatin is derived from human urine.

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