

Ulinastatin Human

Description: Recombinant Ulinastatin produced in Yeast is a single, glycosylated, polypeptide having 143 amino acids, molecular mass of 20 kDa and predicted pI of 4.5.

Catalog #: PRPS-615

Synonyms: UTI, Bikunin, Uristatin, Ulinastatin, AMBP, EDC1, HI30, ITIL, IATIL, ITILC, Urinary Trypsin Inhibitor.

For research use only.

Source: Pichia Pastoris.

Physical Appearance: Sterile Filtered solution.

Amino Acid Sequence: AVL PQEEEGS GGGQLVTEVT KKEDSCQLGY SAGPCMGMTS
RYFYNGTSMACETFYGGCM GNGNNFVTEK ECLQTCRTVA ACNLPVIRGP
CRAFIQLWAFDAVKGKCVLF PYGGCQGNGN KFYSEKECRE YCGVPGDGDE ELL.

Purity: Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Anion-exchange FPLC.

Formulation:

Formulated in 1X PBS.

Stability:

Ulinastatin although stable at 15°C for 2 weeks, should be stored below -18°C. Please prevent freeze-thaw cycles.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:

Urinary-Trypsin Inhibitor is a glucoprotein proteinase inhibitor with a molecular weight of about 67,000 derived from human urine 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. 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. Ulinastatin particularly interacts with ORF3 protein of hepatitis E virus and is in charge for enhancing alpha microglobulin export from the hepatocyte.

Biological Activity:

Greater than 3000U/mg as measured by BAEE method.

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