

Pro-Urokinase from Human, recombinant

Cat. No. NATE-1689

Lot. No. (See product label)

Introduction

Description	Urokinase or Urokinase-type plasminogen activator (uPA) is a serine protease (EC 3.4.21.73). It is secreted as a single-chain zymogen, pro-Urokinase, possessing little or no intrinsic enzymatic activity. The single chain zymogen is converted into the active two chain enzyme (tcuPA) by cleavage of the bond between Lys157 and Ile158. After activation, Urokinase specifically cleaves the proenzyme
	plasminogen to form the active enzyme plasmin. The active plasmin then catalyzes the breakdown of
	fibrin polymers of blood clots. Urokinase is involved in a number of biological functions including
	fibrinolysis, embryogenesis, cell migration, tissue remodeling, ovulation, and wound healing.
	Additionally, it is a potent marker of invasion and metastasis in a variety of human cancers associated
	with breast, stomach, colon, bladder, ovary, brain and endometrium.

SynonymsSingle chain Urokinase-type plasminogen activator; scuPA; Urokinase-type Plasminogen Activator uPA;PLAU

Product Information

Species	Human
Source	E. coli
Form	Lyophilized powder
Formulation	0.5 mg/ml solution of protein in 25 mM sodium acetate, 50 mM NaCl, pH 5.0 containing 50% glycerol.
Molecular Weight	49.3 kDa
Purity	> 90% by SDS-PAGE
Activity	>1200 mU/mg
Unit Definition	1 U = Digestion of 1 μ mole of Z-GGR-AMC substrate in 1 min at 37°C.

Usage and Packaging

Reconstitution Briefly spin down the vial and reconstitute in water to 0.5-1 mg/ml and store at -80°C.

Storage and Shipping Information

StorageStable at -80°C for at least 1 year as supplied. Store reconstituted aliquots at -80°C. Avoid repeated
freeze and thaw cycles.