

## Native Human Plasmin

Cat. No. NATE-0598

Lot. No. (See product label)

### Introduction

**Description** Plasmin functions as a key enzyme of the fibrinolytic cascade, and is also important in inflammation processes. Plasmin exhibits preferential cleavage at the carboxyl side of lysine and arginine residues with higher selectivity than trypsin. Converts polymerized fibrin into soluble products.

**Applications** A complex between plasmin and an inhibitor has been isolated in a study via affinity chromatography from urokinase-activated human plasma. It has also been used in a study to investigate activation of human epithelial sodium channel (ENaC) by plasmin and chymotrypsin.

**Synonyms** fibrinase; fibrinolysin; actase; serum tryptase; thrombolysin; plasmin; EC 3.4.21.7; 9001-90-5; PLG

### Product Information

**Species** Human

**Source** Human plasma

**Form** Lyophilized powder containing sodium phosphate, mannitol, and NaCl.

**EC Number** EC 3.4.21.7

**CAS No.** 9001-90-5

**Activity** > 2.0 units/mg protein

**Optimum pH** 8.5

**Optimum temperature** 37°C with rapid inactivation at 56°C

**Pathway** Activation of Matrix Metalloproteinases, organism-specific biosystem; Angiopoietin receptor Tie2-mediated signaling, organism-specific biosystem; Blood Clotting Cascade, organism-specific biosystem; Complement and Coagulation Cascades, organism-specific biosystem; Complement and coagulation cascades, organism-specific biosystem; Complement and coagulation cascades, conserved biosystem; Degradation of the extracellular matrix, organism-specific biosystem

**Function** apolipoprotein binding; cell surface binding; peptidase activity; protein binding; protein domain specific binding; serine-type endopeptidase activity

**Unit Definition** One unit will produce one  $\mu$ mole of p-Nitroanilide from D-Val-Leu-Lys-p-Nitroanilide per minute at pH 7.5 at 37°C.

### Storage and Shipping Information

**Storage** -20°C