

Pharmacological activities of SMTP

Plasminogen-plasmin system

Regulatory mechanism for localized extracellular proteolysis

Physiological role

- Fibrinolysis
- Angiogenesis
- Tissue remodeling and regeneration
- Inflammation

SMTP activity

- Acceleration of thrombolysis
- Inhibition of tumor-induced angiogenesis and tumor growth
- Improvement of liver function after hepatitis
- Improvement of kidney function after glomerulonephritis

5 mg/kg, ip

Normal

Control

Orniplabin

Glomerulus Convoluted tubules

10 mg/kg, ip

Fractional change in radioactivity

Time (minute)

10 mg/kg, ip

Fractional rate of ¹²⁵I-clot lysis (% per 20 min)

Dose of orniplabin (mg/kg)

P < 0.001

5 mg/kg, ip

Normal

Control

Orniplabin

Glomerulus Convoluted tubules

10 mg/kg, ip

Score of histological damage

Normal Control Orniplabin

Histological score

10 mg/kg, ip

Azan staining PCNA immunostaining

Control

Orniplabin

10 mg/kg, ip

Azan staining PCNA immunostaining

Control

Orniplabin

10 mg/kg, ip

Angiogenesis score

Without tumor Saline Orniplabin 10mg/kg

With sarcoma 180

P < 0.01