

## Alteplase

## Chemical Properties

CAS No. : 105857-23-6  
Formula:  
Molecular Weight:  
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
Actual storage temperature shall be subject to the COA.

## Biological Description

Description	Alteplase (Actilyse; Activase) is a recombinant tissue plasminogen activator and serves as a thrombolytic agent, playing a crucial role in treating acute ischemic stroke, pulmonary embolism, acute myocardial infarction, and catheter occlusion. The specifications below refer to the active content of Alteplase, with the effective Alteplase content: total mass ratio = 1:46~1:50, with the actual ratio depending on the batch.
Targets(IC50)	Serine Protease
In vitro	Alteplase (8.3 and 250 µg/mL, 12 hours) significantly reduces activity in human fetal retinal pigment epithelial cells (hFRPE cells). Additionally, Alteplase (8.3 and 250 µg/mL, 0-6 hours) markedly decreases transepithelial resistance in a time-dependent manner and induces cell death in hFRPE cells. The product formulation includes excipients such as L-arginine, phosphate, and polysorbate 80.
In vivo	Administering Alteplase (0.9-10 mg/kg, intravenous injection, 20 to 40 minutes after onset or 180 and 240 minutes after onset) is beneficial when given early, within 3 hours of stroke onset, in mice that experienced thromboembolic stroke. However, if administration is delayed for 3 hours or more, it does not provide benefits.

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