Creative Enzymes®

Native Streptococcus hemolyticus Streptokinase

Cat. No. PHAM-261

Lot. No. (See product label)

Introduction

Description	Streptokinase (SK) is an enzyme secreted by several species of streptococci that can bind and activate human plasminogen. SK is used as an effective and inexpensive thrombolysis medication in some cases of myocardial infarction (heart attack) and pulmonary embolism. Streptokinase belongs to a group of medications known as fibrinolytics, and complexes of streptokinase with human plasminogen can hydrolytically activate other unbound plasminogen by activating through bond cleavage to produce plasmin.
Applications	Streptokinase is commonly used as a thrombolytic agent in the therapy of ischemic stroke. This therapy carries the important risk of intracerebral hemorrhage. Streptokinase is also used in the treatment of complicated parapneumonic effusions and empyema where adverse reactions, allergic type, are rare.
Synonyms	Streptokinase; SK; EC 3.4.99.0

Product Information

Source	Streptococcus hemolyticus
Appearance	Appearance (Color): Conforms to Requirements Off-White to Light Yellow to Light Beige
Form	Lyophilized powder containing ~50% total protein by biuret and sodium glutamate. Total protein composed of enzyme protein and human serum albumin.
EC Number	EC 3.4.99.0
CAS No.	9002-01-1
Activity	> 3,500 units/mg solid
Unit Definition	One unit will liquify a standard clot of fibrinogen, plasminogen, and thrombin at pH 7.5 at 37 °C in 10 min.