



Product Data Sheet

□ Cat # RP-401

Recombinant Streptokinase

Size: □ 250KU

Streptokinase is an extracellular metallo-enzyme produced by beta-haemolytic streptococcus and is used as an effective and cheap clot-dissolving medication in some cases of myocardial infarction (heart attack) and pulmonary embolism. It belongs to a group of medications known as fibrinolytics, and works by activating plasminogen through cleavage to produce plasmin.

Source: Escherichia Coli. Streptokinase Recombinant produced in E. Coli is a non-glycosylated polypeptide chain containing 414 amino acids and having a molecular weight of 47 kd. The Streptokinase is purified by proprietary chromatographic techniques. The protein (1.5 MIU) was lyophilized from a sterile solution containing 12.5 mg HSA, 2.3 mg Sodium phosphate dibasic, 0.55 mg sodium phosphate monobasic buffer and 4.2 mg Sodium glutamate monohydrate.

Applications and Suggested Dilutions: It is recommended to reconstitute the lyophilized Streptokinase in sterile 18MΩ-cm H₂O. Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE. Users must optimize the appropriate concentration and conditions for each assay.

Storage and Stability: Lyophilized Streptokinase although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Streptokinase should be stored at 4°C between 2-7 days and for future use below -18°C. **Please prevent freeze-thaw cycles.** If supplied in powder then reconstitute it in 100 ul water for 1 mg/ml stock and store in liquid at 4°C for ~1 week or aliquots in suitable size and store at -20°C for long term storage.

Biological Activity: One unit will liquefy a standard clot of fibrinogen, plasminogen and thrombin at pH 7.5 at 37°C in 10 min.

Usage: This item is for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

RP-401

110208V