

Recombinant Streptokinase

#R00502

Size: 100 µg/500 µg

Stability & Storage

- Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
- 12 months from date of receipt, -20 to -70 °C as supplied.
 - 1 month, 2 to 8 °C under sterile conditions after reconstitution.
 - 3 months, -20 to -70 °C under sterile conditions after reconstitution.



Warning: This product is intended for scientific research only. It is not to be used for medical or diagnostic procedures in humans or animals, nor as a food, cosmetic, or household product.

Background

Streptokinase is a thrombolytic agent i.e. it dissolves vascular thrombi. This potent agent is derived from the beta haemolytic streptococci and is consequently associated with the risk of anaphylaxis. Streptokinase acts by stimulating the conversion of plasminogen to plasmin. It's a proteolytic enzyme which is able to disrupt fibrin stability and production.

AA Sequence

IAGPEWLLDRPSVNNSQLVVSVAGTVEGTNQDISLKF
FEIDLTSRPAHGGKTEQGLSPKSKLFATDSGAMPHKL
EKADLLKAIQEQLIANVHSNDDYFEVIDFASDATITDRN
GKVYFADKDGSVTLPIQPVQEFLKGHVRVRPYKEKP
VQNQAKSVDVEYTVQFTPLNPDDDFRPALKDTKLLKT
LAIGDTITSQELLAQAQSILNKNHPGYTIYERDSSIVTH
DNDIFRTILPMDQEFTYHVKNREQAYRINKKSGLNEEI
NNTDLISEKYYVLKKGEKPYDPFDRSHLKLFITIKYVDV
NTNELLKSEQLLTASERNLDFRDLYDPRDKAKLLYNN

LDAFGIMDYTLTGKVEDNHDDTNRIITVYMGKRPEGE
NASYHLAYDKDRYTEEEEREVYSYLRYTGTPIDNPND
K

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.

Product Specification

Synonyms	Kabikinase, Streptase, Kinalysin, Plasminokinase, SK
Accession	P10519
Source	Escherichia coli.
Molecular Weight	Approximately 47.3 kDa, a single non-glycosylated polypeptide chain containing 414 amino acids.
Purity	> 97 % by SDS-PAGE and HPLC analyses.
Biological Activity	Fully biologically active when compared to standard. The specific activity determined by fibrining lysis in agarose plate is 8.0 × 10 ⁴ IU/mg.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation	Lyophilized from a 0.2 µm

	filtered concentrated solution in PBS, pH 7.4, 0.02% Tween20.
Endotoxin	Less than 1 EU/μg of rSK as determined by LAL method.
