

Active Recombinant Streptokinase (SK) protein

Cat. No. Streptokinase-06 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Streptokinase (SK) protein was expressed in Escherichia coli.
Species	Streptococcus sp.
Source	E.coli
ProteinLength	414
Description	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 is a proteolytic enzyme which is able to disrupt fibrin stability and production.
Form	Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4.
Bio-activity	Fully biologically active when compared to standard. The specific activity determined by fibrin lysis in agarose plate is 8.0×10^4 IU/mg.
Molecular Mass	Approximately 47.3 kDa, a single non-glycosylated polypeptide chain containing 414 amino acids.
AA Sequence	IAGPEWLLDRPSVNNSQLVVS VAGTVEGTNQDISLKFFEIDLT SRPAHGGKTEQGLS PKSKLFATDSGAMPHKLEKADLLKAIQEQLIANVHSNDDYFEVIDFASDATITDRNGK VYFADKDGSVTLPIQPVQEFLKGHVRVRPYKEKPVQNQA KSVDVEYTVQFTPLNP

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DDDFRPALKDTKLLKTLAIGDTITSQELLAQAQSILNKNHPGYTIYERDSSIVTHDNDIF
 RTILPMDQEFTYHVKNREQAYRINKKSGLNNEINNTDLISEKYYVLKKGEKPYDPFDR
 SHLKLFTIKYVDVNTNELLKSEQLLTASERNLDFRDLYDPRDKAKLLYNNLDAFGIMD
 YTLTGKVEDNHDDTNRIITVYMGKRPEGENASYHLAYDKDRYTEEEREVYSYLRYTG
 TPIPDNPNDK

Endotoxin Less than 1 EU/μg of rSK as determined by LAL method.

Purity >97% by SDS-PAGE and HPLC analysis.

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

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 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

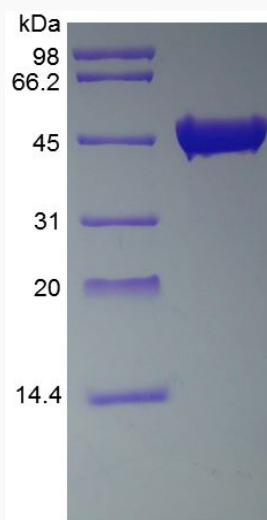
UniProt ID [P10519](#)

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**SDS-PAGE of
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