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 fibrining 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	IAGPEWLLDRPSVNNSQLVVSVAGTVEGTNQDISLKFFEIDLTSRPAHGGKTEQGLS PKSKLFATDSGAMPHKLEKADLLKAIQEQLIANVHSNDDYFEVIDFASDATITDRNGK VYFADKDGSVTLPIQPVQEFLLKGHVRVRPYKEKPVQNQAKSVDVEYTVQFTPLNP

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	DDDFRPALKDTKLLKTLAIGDTITSQELLAQAQSILNKNHPGYTIYERDSSIVTHDNDIF RTILPMDQEFTYHVKNREQAYRINKKSGLNEEINNTDLISEKYYVLKKGEKPYDPFDR 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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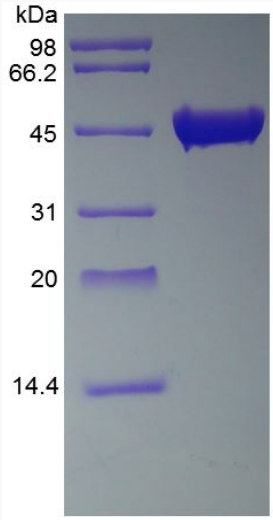
SDS-PAGE of Streptokinase-06	

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