

## Overview

<b>Synonyms</b>	Staphylokinase ;
<b>Description</b>	Staphylokinase (SAK), a 16kDa profibrinolytic protein from the <i>Staphylococcus aureus</i> , has been demonstrated to induce highly fibrin-specific thrombolysis in both human plasma and in limited clinical trials. Recent studies on the thrombolytic potential of recombinant SAK in achieving early perfusion in myocardial infarction and in the dissolution of platelet-rich clot have clearly established its immense utility in clinical medicine as a thrombolytic agent and suggested that it can be developed as a potent clot-dissolving agent.
<b>Source</b>	<i>E. coli</i>
<b>Biological Activity</b>	Fully biologically active when compared to standard. The specific activity determined by fibrinolytic lysis in agarose plate is $5.0 \times 10^4$ IU/mg.
<b>Sequence</b>	SSSFDKGGKYK KGDDASYFEP TGPYLMVNVVT GVDGKRNELL SPRYVEFPIK PGTTLTKEKI EYYVEWALDA TAYKEFRVVE LDPSAKIEVT YYDKNKKKEE TKSFPITEKG FVVPDLSEHI KNPGFNLITK VVIEKK

## Properties

<b>Measured Molecular Weight</b>	Approximately 15.6 kDa, a single non-glycosylated polypeptide chain containing 136 amino acids.
<b>Purity</b>	> 97% by SDS-PAGE and HPLC analyses.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.
<b>Reconstitution</b>	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 d -20 °C. Further dilutions should be made in appropriate buffered solutions.
<b>Endotoxin Level</b>	Less than 1 EU/µg of rSAK as determined by LAL method.
<b>Physical Appearance</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Usage</b>	This material is for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE.
<b>Storage</b>	This lyophilized preparation is stable at 2-8 °C, but should be kept at -20 °C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 °C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 °C to -70 °C. <b>Avoid repeated freeze/thaw cycles.</b>

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