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Certificate of Analysis and Data Sheet
Recombinant Staphylokinase

Catalog No.	**Source**
228-11461	*Escherichia Coli*

Synonyms
Staphylokinase, SakSTAR, Neutral proteinase, Protease III, SAK.

Introduction
Staphylokinase (SAK) is a 136-amino acid enzyme from Staphylococcus aureus. It is positively regulated by the "agr" gene regulator. It activates plasminogen, which in turn can degrade various host proteins during infection.

Description
Staphylokinase Recombinant produced in E.Coli is a non-glycosylated polypeptide chain containing 136 amino acids and having a molecular weight of 15.5 kDa. The Staphylokinase is purified by proprietary chromatographic techniques.

Physical Appearance
Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation
The protein was lyophilized from a sterile solution containing 20mM phosphate buffer pH-7.

Solubility
It is recommended to reconstitute the lyophilized SAK in sterile 18MΩ-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Stability
Lyophilized SAK although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution SAK should be stored at 4°C between 2-7 days and for future use below -18°C.
Please prevent freeze-thaw cycles.

Purity
Greater than 97.0% as determined by
(a) Analysis by RP-HPLC.
(b) Analysis by SDS-PAGE.

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Biological Activity

The biological activity measured by the ability of fibrin lysis in agarose plate was found to be 4600 IU/mg.

Amino Acid Sequence

The sequence of the first five N-terminal amino acids was determined and was found to be Ser-Ser-Ser-Phe-Asp.