



## Product Datasheet

<b>Product Name</b>	Staphylokinase Recombinant
<b>Cata No</b>	CB500467
<b>Source</b>	Escherichia Coli.
<b>Synonyms</b>	Staphylokinase, SakSTAR, Neutral proteinase, Protease III, SAK.

### Description

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

### Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder

### Biological Activity

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

### Purity

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

### Formulation

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

### 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.**

### Sequence

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