

Product Data Sheet

□ Cat # RP-375

Recombinant Staphylokinase

Size: □ 20 ug

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.

Source: *Escherichia Coli*. 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. The protein was lyophilized from a sterile solution containing 20mM phosphate buffer pH-7.

Applications and Suggested Dilutions: 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. Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE. Users must optimize the appropriate concentration and conditions for each assay.

Storage and 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.** If supplied in powder then reconstitute it in 100 ul water for 1 mg/ml stock and store in liquid at 4°C for ~1 week or aliquots in suitable size and store at -20°C for long term storage.

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

Usage: This item is for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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