

Staphylokinase

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 kd. The Staphylokinase is purified by proprietary chromatographic techniques.

Catalog #: ENPS-295

For research use only.

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

Source: Escherichia Coli.

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

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.

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.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Solubility:

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

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.

Biological Activity:

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

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