

Staphylokinase Protein, *S. aureus*

Cat. No.:	HY-P72780
Synonyms:	Staphylokinase; Neutral proteinase; Protease III; SakSTAR; sak
Species:	Staphylococcus aureus
Source:	E. coli
Accession:	P68802 (S28-K163)
Gene ID:	58067813
Molecular Weight:	Approximately 15.6 kDa

PROPERTIES

AA Sequence	<pre> SSSFDK GK YK KGDDASYFEP TGPYLMVNVT GVDGKGNELL SPHYVEFP IK PGTTLTKEKI EYYVEWALDA TAYKEFRVVE LDPSAKIEVT YYDKNKKKEE TKSFPITEKG FVVPDLSEHI KNPGFN LITK VVIEKK </pre>
Biological Activity	The specific activity determined by fibrinolytic activity in agarose plate is $>5.0 \times 10^4$ IU/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μ m filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/ μ g; determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Staphylokinase Protein is a potent plasminogen activator that efficiently converts plasminogen into plasmin, an active enzyme involved in fibrinolysis. It forms a 1:1 complex with plasmin, and this complex further activates additional plasminogen molecules, amplifying the fibrinolytic cascade.
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Caution: Product has not been fully validated for medical applications. For research use only.

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