

PrimeGene Technical DataSheet

Catalog Number:	451-02
Source:	<i>Escherichia coli</i>
Molecular Weight:	Approximately 15.6 kDa, a single non-glycosylated polypeptide chain containing 136 amino acids.
Size:	100µg/ 500µg/ 1mg
AA Sequence:	SSSFDKGKYK KGDDASYFEP TGPYLMVNVT GVDGKRNEL SPRYVEFPIK PGTTLTKEKI EYYVEWALDA TAYKEFRVVE LDPSAKIEVT YYDKNKKKEE TKSFPITEKG FVVPDLSEHI KNPGFNLITK VVIEKK
Purity:	> 97% by SDS-PAGE and HPLC analyses.
Biological Activity:	Fully biologically active when compared to standard. The specific activity determined by fibrin lysis in agarose plate is 5.0×10^4 IU/mg.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH7.0, 0.02 % Tween80.
Endotoxin:	Less than 1 EU/µg of rSAK as determined by LAL method.
Reconstitution:	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-0.5 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.
Shipping:	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage:	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none">● 12 months from date of receipt, -20 to -70 °C as supplied.● 1 month, 2 to 8 °C under sterile conditions after reconstitution.● 3 months, -20 to -70 °C under sterile conditions after reconstitution.
Usage:	This material is offered by Shanghai PrimeGene Bio-Tech for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE.

Staphylokinase

Staphylokinase is an amino acid enzyme secreted by several species of streptococci. It is a 16 kDa potent plasminogen activator that converts plasminogen into plasmin which can digest fibrin the major constituent of blood thrombi. SAK forms 1:1 complex with plasmin, which is a positive feedback of producing other complexes. Recent studies on the thrombolytic potential of recombinant SAK in achieving early perfusion in myocardial infarction and in the dissolution of platelet-rich clot have clearly established its immense utility in clinical medicine as a thrombolytic agent and suggested that it can be developed as a potent clot-dissolving agent.