

## SVTLE Protein, Protobothrops flavoviridis, Recombinant (His & Myc)

### General Information

Synonyms:	Habutobin; Snake venom serine protease 1 (SVSP); SVTLE; Fibrinogen-clotting enzyme; TLF1; Thrombin-like enzyme flavoxobin
Protein Construction:	25-260 aa
Species:	Protobothrops flavoviridis
Expression Host:	E. coli
Accession:	P05620
Molecular Weight:	33.1 kDa (predicted)
AA Sequence:	VIGGDECNINEHPFLVALYDAWSGRFLCGGTLINPEWVLTAAHCDSKNFKMKLGHAHSKKVLNEDEQIRNPKE KFICPNKKNDEVLDKDIMLIKLDSPVSYSEHIAPLSLPSSPPSVGSVCRIMGWGSITPVEETFPDVPHCANINLL DDVECKPGYPELLPEYRTLCAVLQGGIDTCGFDSGTPLICNGQFQGVISYGGHPCGQSRKPGIYTKVFDYNA WIQSIIAGNTAATCLP

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

### Preparation and Storage

#### Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Thrombin-like snake venom serine protease that clots fibrinogen (FGA) by releasing fibrinopeptide A. According to PubMed:8585090, only cleaves rabbit fibrinogen, whereas no specificity is described in PubMed:3910643 (tests done on bovine fibrinogen). Also acts as a C3 convertase that independently cleaves human C3 and kick-starts the

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complement cascade. Also increases urokinase-type plasminogen activator (PLAU) and plasminogen activator inhibitor (SERPINE1) in cultured bovine pulmonary artery endothelial cells. Dose-dependently inhibits collagen-induced platelet aggregation.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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