

SVMP Protein, Bothrops atrox, Recombinant (His & Myc)

General Information

Synonyms:	Snake venom metalloproteinase atroxlysin-1;SVMP;Atroxlysin-I
Protein Construction:	1-202 aa
Species:	Bothrops atrox
Expression Host:	E. coli
Accession:	P85420
Molecular Weight:	30.4 kDa (predicted)
AA Sequence:	TPEQQRVVDLFIVVDHGMFMKYNGNSDKIRRRIHQMVNIMKEAYSTMYIDILLTGVEIWSNKDLINVQPAAPQ TLDSFGWRKTDLLNRKSHDNAQLLTSTDFNGPTIGLAYVGSMDPKRSTGVIQDHSQDLMVAITMAHELG HNLGISHDTGSCSCGGYSCIMSPVLSHEPSKYFSDCSYIQWDFIMKENPQCILNKR

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:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

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

Snake venom zinc metalloproteinase that acts on fibrinogen, fibrin, fibronectin (FN1), type I collagen, type IV collagen, integrin alpha-7/beta-1 (ITGA7/ITGB1) and integrin alpha-1/beta-1 (ITGA1/ITGB1). Binds to fibronectin

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(FN1), fibrinogen and, weakly, to type I collagen and laminin. Cleaves Xaa-Leu bonds. Inhibits ADP- and collagen-induced platelet aggregation both in the presence (IC₅₀)=1.4 μM for collagen) and in the absence (IC₅₀)=2.2 μM for collagen) of cofactors. Has hemorrhagic activity.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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