

Native Bothrops atrox snake venom Batroxobin Protein

Cat. No. Batroxobin-99 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Batroxobin is a serin protease that reduces fibrinogen levels and is originally extracted from snake venom of Bothrops Atrox.
Species	Bothrops atrox
Source	Snake Venom
Description	Batroxobin is used in defibrinogenation and thrombolysis and also has an effect on c-fos gene and growth factor. Batroxobin can efficiently restrain proliferation of VSMCs, by blocking the release and uptake of Ca^{2+} , thus influencing $[Ca^{2+}]_i$. Batroxobin converts fibrinogen to fibrin through the restricted release of fibrinopeptide-A from fibrinogen to promote blood to clot. Unlike thrombin, it is not affected by heparin and hirudin.
Form	Sterile Filtered white lyophilized powder.
Molecular Mass	43 kDa
Unit Definition	100BU [Batroxobin Units]=1mg.
Storage	Batroxobin although stable at room temperature for 3 weeks, should be stored below -18 centigrade. Upon reconstitution Batroxobin should be stored at 4 centigrade between 2-7 days and for future use below -18 centigrade. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

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Storage Buffer

The Batroxobin protein was lyophilized from a concentrated (1 mg/mL) solution with no additives.

Reconstitution

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

GENE INFORMATION**Synonyms**

Thrombin-like enzyme batroxobin; EC 3.4.21.74; BX; Bothrops atrox serine proteinase; Venombin-A; Defibrase; Reptilase; Batroxobin

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