

## 32-3294: Batroxobin Recombinant Protein (Discontinued)

**Alternative Name :** Thrombin-like enzyme batroxobin, EC 3.4.21.74, BX, Bothrops atrox serine proteinase, Venombin-A, Defibrase, Reptilase, Batroxobin.

### Description

Source : Pichia Pastoris. The Batroxobin Recombinant Protein, produced in yeast, is a single, glycosylated polypeptide chain containing 231 amino acids and having an Mw of approximately 28-33 kDa. Batroxobin is a serin protease that reduces fibrinogen levels and is originally extracted from snake venom of Bothrops Atrox. 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 is a single chain glycopeptide with a molecular mass of 43kDa on SDS-PAGE gel and its pI-6.6. 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.

### Product Info

<b>Amount :</b>	10 µg
<b>Purification :</b>	Greater than 97.0% as determined by (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
<b>Content :</b>	The Batroxobin protein was lyophilized from a concentrated (1mg/ml) solution containing 20mM sodium acetate buffer, pH 7.4.
<b>Storage condition :</b>	Batroxobin although stable at room temperature for 3 weeks, should be stored below -18°C. Upon reconstitution Batroxobin should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
<b>Amino Acid :</b>	VIGGDECDIN EHPFLAFMYI SPYFCGRTL INQEWVLTAA HCNRRFMRIH LGKHAGSVAN YDEVVRYPKK KFICPNKKKN VITDKDIMLI RLDRPVKNSE HIAPLSLPSN PPSVGSVCRI MGWGAIITSE DTYPDVPHCA NINLFNNTVC REAYNGLPAK TLCAGVLQGG IDTCGGDSGG PLICNGQFQG ILSWGSDPCA EPRKPAFYTK VFDYLPWIQS IAGNKTATC P.

### Application Note

It is recommended to reconstitute the lyophilized Batroxobin in sterile 18M-cm H<sub>2</sub>O not less than 100µg/ml, which can then be further diluted to other aqueous solutions. Batroxobin's biological activity was found to be of no less than 500KU/mg. (Klobusitzky Unit). One KU is defined as the amount of enzyme which coagulates standard human plasma incubated at 37°C in vitro within 60 ± 20 seconds.

