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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, glycosilated polypeptide chain containing 231 amino acids and having an Mw of approximately 28-33 kDa. Batroxobin is a serin protease that reduces fibronogen 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 Ca2+, thus influencing [Ca2+]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

Amount :	10 µg
Purification :	Greater than 97.0% as determined by(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Content :	The Batroxobin protein was lyophilized from a concentrated (1mg/ml) solution containing 20mM sodium acetate buffer, pH 7.4.
Storage condition :	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.
Amino Acid :	VIGGDECDIN EHPFLAFMYY SPRYFCGMTL INQEWVLTAA HCNRRFMRIH LGKHAGSVAN YDEVVRYPKE KFICPNKKKN VITDKDIMLI RLDRPVKNSE HIAPLSLPSN PPSVGSVCRI MGWGAITTSE DTYPDVPHCA NINLFNNTVC REAYNGLPAK TLCAGVLQGG IDTCGGDSGG PLICNGQFQG ILSWGSDPCA EPRKPAFYTK VFDYLPWIQS IIAGNKTATC P.

Application Note

It is recommended to reconstitute the lyophilized Batroxobin in sterile 18M-cm H2O 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.