



Product Datasheet

Product Name	Batroxobin Recombinant
Cata No	CB501464
Source	<i>Pichia Pastoris</i>
Synonyms	Thrombin-like enzyme batroxobin, EC 3.4.21.74, BX, Bothrops atrox serine proteinase, Venombin-A, Defibrase, Reptilase, Batroxobin.

Description

Batroxobin is a serin protease that reduces fibronogen levels and is originally extracted from snake venom of Bothrops Atox. 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. The Batroxobin Recombinant Protein, produced in yeast, is a single, glycosilated polypeptide chain containing 213 amino acids and having a 28-33 kDa.

Physical Appearance

Sterile Filtered liquid formulation.

Biological Activity

Batroxobin's biological activity was found to be of no less than 500KU/mg. (Klobusitzky Unit).

Purity

Greater than 97.0% as determined by:
(a) Analysis by RP-HPLC.
(b) Analysis by SDS-PAGE.

Formulation

The Batroxobin protein solution contains 20mM sodium acetate buffer, pH 7.4.

Stability

Batroxobin although stable at 15°C for 2 weeks, should be stored desiccated 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.

Sequence

VIGGDECDIN EHPFLAFMYI SPRYFCGMTL
INQEWVLTAA HCNRRFMRIH
LGKHAGSVAN YDEVVRYPKK KFICPNKKN
VITDKDIMLI RLDRPVKNSE
HIAPLSLPSN PPSVGSVCRI MGWGAIITSE
DTYDPVPHCA NINLFNNTVC
REAYNGLPAK TLCAGVLQGG IDTCGGDSSG
PLICNGQFQG ILSWGSDPCA
EPRKPAFYTK VFDYLPWIQS IIAGNKTATC P.

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