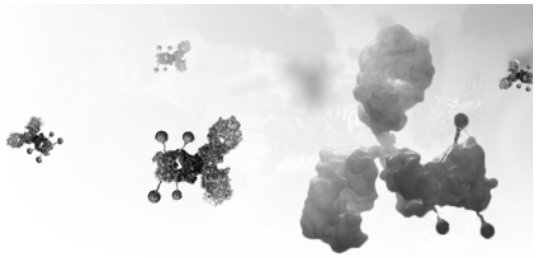

Native Bothrops atrox Batroxobin (DAG3278N)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Batroxobin, isolated from Bothrops atrox snake venom, has an Mw of approximately 43kDa.
Antigen Description	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+].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.
Species	B. atrox
Conjugate	Unconjugated
Molecular Weight	43 kDa
Reconstitution	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.
Format	Lyophilized
Buffer	Lyophilized from a concentrated (1mg/ml) solution with no additives.
Preservative	None
Storage	Batroxobin although stable at room temperature for 3 weeks, should be stored below -18°C. reconstitution Batroxobin should be stored at 4°C between 2-7 days and for future use below -18°C. Upon For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

BACKGROUND

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Introduction	Batroxobin is a serine protease derived from the venom of Bothrops atrox. Its molecular weight is approximately 43,000 g/mol. This thrombin-like proteolytic enzyme splits the 16 Arg-17 Gly bond in the A(alpha)-chain of fibrinogen, releasing fibrinopeptide A and leading to the clot formation through aggregation of formed of fibrin I monomer or Des-AA-monomer. In contrast to other anti-coagulants, it does not affect the functions of platelets. Hence, Batroxobin is used to determine fibrinogen in plasma, to measure a 'batroxobin clotting time' as a heparin-insensitive parallel to the thrombin time, to investigate dysfibrinogenemia, and to test the contractile system of platelets.
Keywords	Batroxobin; Bothrops atrox; B. atrox

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