

Haemocoagulase

Cat. No. CED39 Lot. No. (See product label)

SPECIFICATION

Product Overview

Batroxobin is a thrombin-like proteolytic enzyme isolated from the venom of *Bothrops atrox*. It splits the 16 Arg-17 Gly bond in the A α -chain of fibrinogen and causes the release of fibrinopeptide A and the formation of fibrin I monomer or Des-AA-monomer which spontaneously aggregates into a clot of fibrin I. Batroxobin also induces the release of tPA from endothelium.

Description

Batroxobin is a serine protease derived from the venom of *Bothrops atrox*. Its molecular weight is approximately 43,000 g/mol⁻¹. 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.

Application

Due to its specific action on fibrinogen and its ability to clot platelet-rich plasma without affecting the integrity and functions of the platelets, and thanks to its insensitivity to thrombin inhibitors, batroxobin has found several applications as a tool in blood coagulation research and diagnosis. Batroxobin can be used to determine fibrinogen in plasma, to measure the batroxobin clotting time (Reptilase time) as a heparin-insensitive parallel to the thrombin time, to investigate dysfibrinogenemia, and to test the contractile system of platelets.

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Origin	Bothrops atrox snake venom
MW	approx. 43'000
Storage	May be used by the expiry date given on the label when stored unopened, protected from moisture. Avoid contamination of the reagents by micro-organisms. Shipment of product does not require cooling during the time of transportation. Store at -20°C.
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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