



Product name:	Bovine α-Thrombin
Catalog #:	CFb001
Lot #:	XXXXXX

Source

Bovine; the product is derived from clinically healthy animals.

Background

The serine protease is a glycosylated trypsin like enzyme, product of the activation of the plasma protein prothrombin. By both autocatalytic activity and cleavage by Factor Xa of the prothrombin, the two-chain molecule α -thrombin generated. Thrombin catalyses thrombus formation and has both pro- and anticoagulant properties in the haemostatic system.

Buffer

In liquid state in 175 mM NaCl, 50 mM Tris-HCl, 0.02% NaN₃ (pH 7.9) or in requested buffer.

Recommended storage

Keep below -70°C. Stable for two years (see label for expiry date).

Delivery

Shipment on dry ice.

Activity

Activity is measured towards chromogenic substrate S2238. Concentration indicated on label.

1 Unit is equal to 1 ml of 9.3 nM thrombin.

Use

For research use only.

Purity

Greater than 95.0% as determined by SDS-PAGE.

Chemical properties

Property	Unit	
Molecular Weight	Da	37.000
Plasma concentration	μ g/ml	0
Half life	hours	-
pI		7.05-7.10
EC $1\%_{1\text{cm},280\text{nm}}$		19.5

Note: thrombin precipitates at pH <5

Certification

Produced under ISO 9000-2015