

F2

Native Bovine Thrombin, Technical Grade

Catalog No.	CSI14878A	Quantity:	10 KU
	CSI14878B		500 KU
	CSI14878C		1000 KU

Alternate Names: Prothrombin, Thrombin, Coagulation factor II, Factor 2, F2

Description: Technical Grade Native Bovine Thrombin is used to defibrinate plasma, producing serum matrixes to be used as controls and standards. Using bovine thrombin in polyclonal antibody production to defibrinate plasma may increase antibody yields by 15-20% over off-the-clot methods of defibrination.

Specific Activity 50-150 U/mg solid in US/NIH coagulation units.

Coagulation Factor 2 (F2) prothrombin, is proteolytically cleaved to form Thrombin (activated Factor II) in the first step of the Coagulation Cascade. Thrombin is a serine protease that converts Fibrinogen, a soluble plasma glycoprotein, to an insoluble protein gel called fibrin, the essential component of the blood clot. to Fibrin, thereby playing a key role in blood clot formation.

UniProt ID: P00735

Source: Bovine plasma

Molecular Weight: 36 kDa

Formulation: Lyophilized from 50 mM NaCl, 12 mM CaCl₂ and 1.4% glycine

Purity: 0.45 - 0.70 mg protein/mg solid (Biuret)
Moisture ≤ 5% (loss on drying)
pH 6.5 - 7.5 (1% solution)

EC Number: 3.4.21.5

Biological Activity: 50 - 150 NIH Units/mg solid (US/NIH coagulation Units)

Specific Activity: 90 - 250 NIH Units/mg protein

Reconstitution: Reconstitute with 0.9% NaCl

Storage & Stability: Upon receipt, store unopened vial at -20°C to -80°C for at least 1 year. Store reconstituted aliquots at -20°C to -80°C. **Avoid repeated freeze-thaw cycles.**

Country of Origin: USA

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