

## F2

### Native Bovine Thrombin, High Purity, ( $\geq 2,200$ U/mg)

<b>Catalog No.</b>	CSI19703A	<b>Quantity:</b>	20 KU
	CSI19703B		100 KU
	CSI19703C		500 KU

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

**Description:** This High Purity Bovine Thrombin product is used to cleave r-fusion proteins containing a thrombin cleavage site (e.g., Leu-Val-Pro-Arg-II-Gly-Ser) for removal of affinity tags as well as certain diagnostic pharmaceutical applications.

**Specific Activity  $\geq 200$  U/mg solid in 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 300 mM NaCl and 1% glycine

**Purity:** Report mg protein/mg solid (Biuret)  
Moisture  $\leq 5\%$  (loss on drying)  
pH 6.5 - 7.5 (1% solution)

**EC Number:** 3.4.21.5

**Biological Activity:**  $\geq 200$  NIH Units/mg solid (US/NIH coagulation Units)

**Specific Activity:**  $\geq 2,200$  NIH Units/mg protein

**Reconstitution:** Reconstitute with 0.9% NaCl

**Storage & Stability:** Upon receipt, store unopened vial at  $-20^{\circ}\text{C}$  to  $-80^{\circ}\text{C}$  for at least 1 year. Store reconstituted aliquots at  $-20^{\circ}\text{C}$  to  $-80^{\circ}\text{C}$ . **Avoid repeated freeze-thaw cycles.**

**Country of Origin:** USA

**NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.**



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