

# Bovine Thrombin Recombinant Protein



RPPB5147

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## Product Information    Protein Information

**Product SKU:**

RPPB5147

**Appearance:**

Sterile Filtered light brown lyophilized (freeze-dried) powder.

**Host:**

Bovine Blood.

**Synonyms:**

Coagulation Factor II (Thrombin), Prepro-Coagulation Factor II, EC 3.4.21.5, RPRGL2, THPH1, Coagulation Factor II, Prothrombin B-Chain, Serine Protease, Prothrombin, EC 3.4.21, PT, F2.

**Formulation:**

Lyophilized freeze dry powder formulated with Tris buffer, HCl and sodium chloride, PH 7.5.

**Solubility:**

It is recommended to reconstitute the lyophilized Thrombin in sterile 18MΩ-cm H<sub>2</sub>O.

**Stability:**

Lyophilized Thrombin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Thrombin should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

**Biological Activity:**

Activity was determined by the direct comparison to NIH Thrombin Reference Standard which uses 200ul of diluted plasma 1:1 with saline as a substrate and 100ul of albumin solution based on a modification of the method of Biggs. The clotting durations for determining thrombin activity are in the range of 15–25 seconds at 37C. The specific activity found was 176 NIH units per mg.