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## Product Data Sheet

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Product Name: Thrombin  
Cat. No.: GP24824  
Batch No.: 1

### Product Data

Purity	>98%	Source	Human Plasma.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Formulation	The Factor-IIa contains 50mM sodium Citrate, 0.2M NaCl & 0.1% PEG-8000 pH 6.5.		

### Introduction

Thrombin enzyme (Activated Factor IIa) is an important clotting promoter that controls the transformation of soluble fibrinogen to insoluble active fibrin strands. Thrombin is a coagulation protein and a serine protease (EC 3.4.21.5) that catalyzes many coagulation-related reactions. Thrombin triggers factor-XI, factor-V, Factor-XIII and factor-VIII. Thrombin endorses platelet activation, using activation of protease-activated receptors on the platelet. As a result of its high proteolytic specificity, thrombin has become an important biochemical protein. The thrombin cleavage site (Leu-Val-Pro-Arg-Gly-Ser) is widely used in linker regions of recombinant fusion protein constructs. After the purification of the fusion protein, thrombin is used to cleave between the Arginine and Glycine residues of the cleavage site, efficiently removing the purification tag from the protein of interest with a high degree of specificity.

### Biological Activity

The specific activity was found to be 3120 NIH Units/mg.

### Stability

Store at 4°C if entire vial will be used within 7 days. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

Thrombin was purified from human plasma.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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