

# Native Rat Coagulation Factor II

**Cat. No.** F2-5286R    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Rat F2 is prepared from fresh frozen rat plasma. Purity is determined by SDS PAGE analysis.
<b>Species</b>	Rat
<b>Source</b>	Rat plasma
<b>Description</b>	F2 is proteolytically cleaved to form thrombin in the first step of the coagulation cascade, which ultimately results in the stemming of blood loss. F2 in turn acts as a serine protease that converts soluble fibrinogen into insoluble strands of fibrin, as well as catalyzing many other coagulation-related reactions.
<b>Form</b>	Liquid in 50% Glycerol.
<b>Purity</b>	> 95% by SDS-PAGE analysis.
<b>Molecular Weight</b>	72,000
<b>Concentration</b>	5.0 mg/ml
<b>Storage</b>	Store at -20°C.
<b>Pathways</b>	Blood Clotting Cascade; Cell surface interactions at the vascular wall; Class A/1 (Rhodopsin-like receptors); Common Pathway; Complement and Coagulation Cascades; Diabetes pathways; FOXA2 and FOXA3 transcription factor

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networks; ExtrinsicPathway; Formation of Fibrin Clot (Clotting Cascade); Hemostasis; IntrinsicPathway; Regulation of actin cytoskeleton; Selenium Pathway; SignalTransduction

## GENE INFORMATION

<b>Gene Name</b>	F2coagulation factor II [ Rattus norvegicus]
<b>Official Symbol</b>	F2
<b>Synonyms</b>	F2; coagulation factor II; prothrombin; thrombin; coagulationfactor2; EC 3.4.21.5
<b>Gene ID</b>	29251
<b>mRNA Refseq</b>	NM_022924
<b>Protein Refseq</b>	NP_075213
<b>Chromosome Location</b>	3q24
<b>Function</b>	peptidase activity; serine-typeendopeptidase activity; calcium ion binding; receptor binding; contributes toreceptor binging; thrombospondin receptor activity

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