

## 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

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

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