

## Active Recombinant Mouse Coagulation Factor III

Cat. No. F3-459M Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant mouse F3 consists of the extracellular domain of mouse tissue factor, amino acids 29-250 of the protein, plus an amino terminal peptide sequence used for purification. It is produced in an *E.coli* expression system. It is visualized at approximately 28 kD on an SDS gel electrophoresis.

**Species** Mouse

**Source** E.coli

**ProteinLength** 29-250 a.a.

**Description** Tissue factor is a cell-surface protein of endothelial cells and monocytes involved in coagulation and inflammation. It is the primary cellular initiator of coagulation cascade, and functions as receptor and cofactor for coagulation Factor VII and VIIa.

**Activity** can be used in a single-stage clotting assay (ingredients: normal mouse plasma + phospholipids in a buffer containing CaCl<sub>2</sub>). At a stock concentration of 90 g/ml a 1:5 dilution of 4500M with the test sample yields a clotting time of approximately 34 seconds.

**Presentation** Screw capped clear glass vial containing 10 g of protein lyophilized in a buffer of PBS, 0.01% CHAPS, pH 7.8 with 200 mM mannitol added as an excipient.

**Purity** Estimated at greater than 95% per SDS gel electrophoresis and silver staining. 4500M appears as a single band at approximately 28 kD.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

**Reconstitution** Reconstitute by adding 100  $\mu$  of filtered deionized water.

**Storage And Stability** Store lyophilized protein at 2°-8°C. Reconstituted protein may be aliquoted and stored frozen at -20°C or colder. It is recommended to avoid freeze-thaw cycles.

## GENE INFORMATION

**Gene Name** F3 coagulation factor III [ *Mus musculus* ]

**Synonyms** coagulation factor III; TF; Cf3; Cf-3; CD142; AA409063; F3; tissue factor

**Gene ID** 14066

**mRNA Refseq** NM\_010171

**Protein Refseq** NP\_034301

**UniProt ID** P20352

**Chromosome Location** 3 G1; 3 50.0 cM

**Pathway** Complement and coagulation cascades

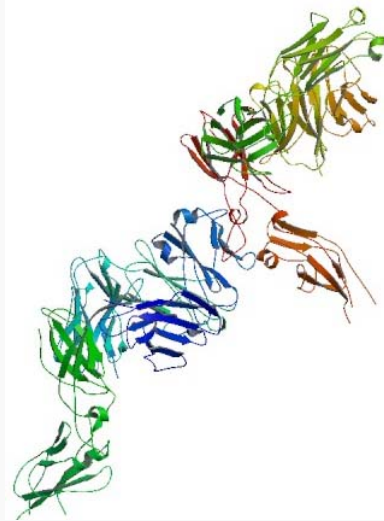
**Function** protease binding

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

PDB rendering based  
on 1ahw.



 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA