

# Mouse Coagulation Factor VII (His Tag) recombinant protein



Catalog Number: 503964

## General Information

### Gene Name Synonym

Serum prothrombin conversion accelerator;  
Factor VII light chain; Factor VII heavy chain

### Protein Construction

A DNA sequence encoding the mouse FVII (NP\_034302.2) (Met 1-Leu 446) was fused with the a polyhistidine tag at the C-terminus.

### Organism

Mouse

### Expression Host

CHO Cells

## QC Testing

### Activity

Measured by its ability to cleave the fluorogenic peptide substrate Boc-VPR-AMC (R&D Systems, Catalog # ES011). The specific activity is >4 pmoles/min/ $\mu$ g.

### Purity

> 98 % as determined by SDS-PAGE

### Endotoxin

< 1.0 EU per  $\mu$ g of the protein as determined by the LAL method

### Stability

Samples are stable for up to twelve months from date of receipt at -70°C

### Predicted N terminal

Val 25 & Ala 42

### Molecular Mass

The mature form of mouse FVII consists of 416 amino acids after removal of the signal peptide and the propeptid, and has a predicted molecular mass of 47 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rm FVII is approximately 55-50 kDa due to glycosylation.

### Formulation

Lyophilized from sterile PBS, pH 7.4  
1. 5 % trehalose and mannitol are added as protectants before lyophilization.  
2. Please contact us for any concerns or special requirements.

## Usage Guide

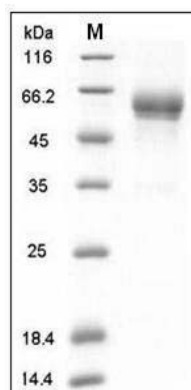
### Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

### Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

### SDS-PAGE



Mouse Coagulation Factor VII / FVII / F7 Protein (His Tag) SDS-PAGE