

## Recombinant Mouse F5 protein, His-tagged

Cat. No. F5-770M    Lot. No. (See product label)

### SPECIFICATION

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Overview | Recombinant Mouse F5 aa. (Pro364~Cys611 (Accession # O88783)) fused with N-terminal His tag was produced in E. coli cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Species          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Source           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| ProteinLength    | Pro364~Cys611                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Description      | This gene encodes a glycoprotein coagulation factor that plays a critical role in the process of blood coagulation and hemostasis. The encoded protein is activated by thrombin, to generate a heterodimer containing heavy and light chains held together by calcium ions. About half of the mice lacking the encoded protein die at an embryonic stage possible due to abnormal yolk-sac vasculature while the remaining animals succumbed to massive hemorrhage immediately after birth. A point mutation in this gene has been shown to cause disseminated intravascular thrombosis in the perinatal period, resulting in frequent deaths of newborn mice. |
| Form             | Freeze-dried powder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Molecular Mass   | Predicted Molecular Mass: 30.1kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Endotoxin        | <1.0EU per 1g (determined by the LAL method)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Purity           | >95%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

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|                       |                                                                                                                                                                                                                                                                                                                                     |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Characteristic</b> | The isoelectric point is 9.5.                                                                                                                                                                                                                                                                                                       |
| <b>Applications</b>   | SDS-PAGE; WB; ELISA; IP.                                                                                                                                                                                                                                                                                                            |
| <b>Stability</b>      | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |
| <b>Storage</b>        | Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.                                                                                                                                                                                                                          |
| <b>Storage buffer</b> | Supplied as lyophilized form in PBS, pH7.4, containing 5% sucrose, 0.01% sarcosyl.                                                                                                                                                                                                                                                  |
| <b>Reconstitution</b> | Reconstitute in sterile PBS, pH7.2-pH7.4.                                                                                                                                                                                                                                                                                           |

## GENE INFORMATION

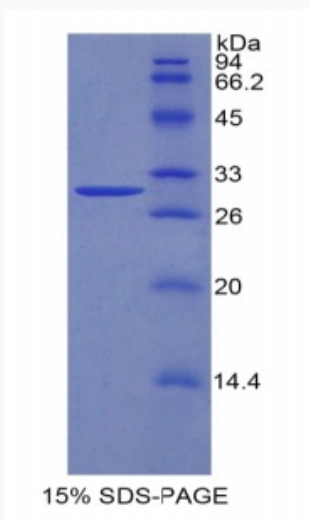
|                        |                                                                         |
|------------------------|-------------------------------------------------------------------------|
| <b>Gene Name</b>       | F5 coagulation factor V [ Mus musculus (house mouse) ]                  |
| <b>Official Symbol</b> | F5                                                                      |
| <b>Synonyms</b>        | Cf5; Cf-5; A1173222; activated protein C cofactor; coagulation factor V |
| <b>Gene ID</b>         | 14067                                                                   |
| <b>mRNA Refseq</b>     | NM_007976.3                                                             |
| <b>Protein Refseq</b>  | NP_032002.1                                                             |
| <b>UniProt ID</b>      | O88783                                                                  |

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