

Recombinant Mouse F2 protein, His-tagged

Cat. No. F2-7769M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse F2 aa. (Thr325~Gly618 (Accession # P19221)) fused with N-terminal His tag was produced in E. coli cells.
Species	Mouse
Source	E.coli
ProteinLength	Thr325~Gly618
Description	This gene encodes a vitamin K-dependent glycoprotein coagulation factor that plays an important role in the process of blood coagulation and hemostasis. The encoded protein is an inactive zymogen that undergoes enzymatic cleavage by the coagulation factor Xa to form an active serine protease that converts soluble fibrinogen to insoluble fibrin clot. Most of the mice lacking the encoded protein die at an embryonic stage due to defects in yolk sac vasculature, while the rare neonates succumb to hemorrhage on the first postnatal day.
Form	Freeze-dried powder
Molecular Mass	35.5 kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	>95%

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Characteristic	The isoelectric point is 9.1.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	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.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as liquid form in Phosphate buffered saline(PBS), pH 7.4.
Reconstitution	Reconstitute in PBS, PH7.2-PH7.4.

GENE INFORMATION

Gene Name	F2 coagulation factor II [<i>Mus musculus</i> (house mouse)]
Official Symbol	F2
Synonyms	Cf2; FII; Cf-2; prothrombin; thrombin
Gene ID	14061
mRNA Refseq	NM_010168.3
Protein Refseq	NP_034298.1
UniProt ID	P19221

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