

Recombinant Human F7

Cat. No. F7-28711TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human Recombinant Full length Factor VIIa produced in BHK is a glycosylated polypeptide two-chain dimer consisting of 406 amino acids with a molecular weight of 50kD.
Species	Human
Description	This gene encodes coagulation factor VII which is a vitamin K-dependent factor essential for hemostasis. This factor circulates in the blood in a zymogen form, and is converted to an active form by either factor IXa, factor Xa, factor XIIa, or thrombin by minor proteolysis. Upon activation of the factor VII, a heavy chain containing a catalytic domain and a light chain containing 2 EGF-like domains are generated, and two chains are held together by a disulfide bond. In the presence of factor III and calcium ions, the activated factor then further activates the coagulation cascade by converting factor IX to factor IXa and/or factor X to factor Xa. Alternative splicing of this gene results in 2 transcripts. Defects in this gene can cause coagulopathy.
Biological activity	Biological Activity: The potency per mg was tested and found to be 50,000Units/mg.
Form	Lyophilised:It is recommended to reconstitute the lyophilized Factor-VIIa in sterile 18MO-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: 50mg/ml Mannitol, 4.86mg/ml Sodium chloride

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

dihydrate, 2.45mg/ml Calcium chloride, 116µg/ml Tween 80

Storage

Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

Full Length

Full L.

GENE INFORMATION

Gene Name

F7 coagulation factor VII (serum prothrombin conversion accelerator) [Homo sapiens]

Official Symbol

F7

Synonyms

F7; coagulation factor VII (serum prothrombin conversion accelerator); coagulation factor VII; eptacog alfa; factor VII; FVII coagulation protein;

Gene ID

2155

mRNA Refseq

NM_000131

Protein Refseq

NP_000122

MIM

613878

Uniprot ID

P08709

Chromosome Location

13q34

Pathway

BMAL1:CLOCK/NPAS2 Activates Gene Expression, organism-specific biosystem;

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

Blood Clotting Cascade, organism-specific biosystem; Circadian Clock, organism-specific biosystem; Complement and Coagulation Cascades, organism-specific biosystem; Complement and coagulation cascades, organism-specific biosystem;

Function

calcium ion binding; glycoprotein binding; peptidase activity; receptor binding; serine-type endopeptidase activity;

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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