9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

F7 Human

Coagulation Factor VIIa Human Recombinant
RCP0799

Product Overview

Name	F7 Human
Description	
Coagulation Factor VIIa Human Recombinant	
Accession (Primary)	P08709
Synonyms	
Coagulation factor VII, EC 3.4.21.21, Serum prothrombin conversion accelerator, SPCA, Proconvertin, Eptacog alfa, F7.	
Introduction	
Coagulation factor VII is a vitamin K-dependent factor which is essential for hemostasis. It circulates in the blood as a zymogen which is later converted to an active form by factor IXa, factor Xa, factor XIIa, or thrombin by minor proteolysis. Upon activation of factor VII, a heavy chain with a catalytic domain and a light chain with 2 EGF-like domains are generated, and the two chains are held together by a disulfide bond. The presence of factor III and calcium ions further activates the coagulation cascade by converting factor IX to factor IXa and/or factor X to factor Xa. Alternative splicing of factor VII results in 2 transcripts. Defects in coagulation factor VII can cause coagulopathy. Coagulation factor VII initiates the extrinsic pathway of blood coagulation. Minor proteolysis converts factor VII to factor VIIa by factors Xa, XIIa, IXa, or thrombin. Factor VIIa also converts factor IX to factor IXa in the presence of tissue factor and calcium.	
Source	
BHK cells (Baby Hamster Kidney Cells).	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
The protein 1 mg/ml was lyophilized after from a sterile solution containing 10mg sucrose pH-6.	
Stability	
Lyophilized Factor-VIIa although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Factor-VIIa should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.	
Purity	

9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

Greater than 98.0% as determined by analysis by SDS-PAGE.

Biological Activity

The potency per mg was tested and found to be 50,000Units/mg.

Solubility

It is recommended to reconstitute the lyophilized Factor-VIIa in sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

F7 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P08709)