
Product Data Sheet

Product Name: F7 Human

Cat. No.: GP23437

Batch No.: 1

Product Data

Purity	>98%	Source	BHK cells (Baby Hamster Kidney Cells).
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Coagulation factor VII; EC 3.4.21.21; Serum prothrombin conversion accelerator; SPCA; Proconvertin; Eptacog alfa; F7.		
Solubility	It is recommended to reconstitute the lyophilized Factor-VIIa in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The protein 1 mg/ml was lyophilized after from a sterile solution containing 10mg sucrose pH-6.		

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.

Biological Activity

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

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

Background

Factor VIIa Human Recombinant produced in BHK is a glycosylated polypeptide two-chain dimer consisting of 406 amino acids with a molecular weight of 50kD. The Factor-VIIa is purified by proprietary chromatographic techniques.

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