

Recombinant Mouse Coagulation Factor VII (F7)

Cat. No.: AP4C849

Product Type: Animal Proteins

Size: 10 µg; 50 µg; 200 µg; 1 mg; 5 mg

Product Overview

BioVenic's Recombinant Mouse Coagulation Factor VII (F7) is a recombinant protein expressed from *E.coli*. Its predicted molecular weight is 14.7 kDa. The purity is > 95%.

Specifications

Type	Recombinant Protein
Species	Mouse
Expression System	<i>E.coli</i>
Purity	> 95%
Endotoxin	<1.0 EU per 1µg (determined by the LAL method)
Predicted Molecular Weight	14.7 kDa
Physical State	Lyophilized
Formulation	PBS, pH7.4, containing 0.01% SKL, 1 mM DTT, 5% Trehalose and Proclin300.

Target Information

Mouse Coagulation Factor VII (F7) is a vitamin K-dependent serine protease that plays a pivotal role in initiating the extrinsic pathway of the coagulation cascade. It circulates in the blood as a zymogen and is activated to FVIIa upon tissue injury, in the presence of tissue factor (TF) and calcium ions. Activated FVIIa then catalyzes the conversion of factor X to factor Xa and factor IX to factor I Xa, propagating the coagulation cascade, leading to thrombin generation, fibrin deposition, and ultimately clot formation. In mice, F7 deficiency results in severe bleeding disorders, highlighting its essential role in hemostasis. Additionally, F7 is primarily synthesized in the liver and is expressed in various tissues, including the cardiovascular system and hematopoietic system.

Protein	Mouse Coagulation Factor VII (F7)
Protein Synonym	Serum prothrombin conversion accelerator; Factor VII light chain
Gene ID	14068
EC No.	P70375

Shipping and Storage

This product is shipped with ice packs. Lyophilized protein can be stored at -80°C for 1 year. After reconstitution, the protein solution can be stored at 2-8°C for 2-7 days.

User Note

Always centrifuge tubes before opening. Avoid mixing by vortexing or pipetting. Reconstitute in PBS or others. Aliquot the reconstituted solution to minimize freeze-thaw cycles.

The product is for research use only. Not for commercial, prophylactic, diagnostic, or therapeutic applications. Please determine the purpose of the product before purchasing. For further information and inquiry, please contact us.