

Recombinant Mouse Prothrombin (F2), N-His

Cat. No.: AP4C339

Product Type: Animal Proteins

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

Product Overview

BioVenic's Recombinant Mouse Prothrombin (F2), N-His is a recombinant protein expressed from *E.coli*. Its predicted molecular weight is 18.1 kDa. The purity is > 90%.

Specifications

Type	Recombinant Protein
Species	Mouse
Expression System	<i>E.coli</i>
Purity	> 90%
Endotoxin	< 1.0 EU/µg
Predicted Molecular Weight	18.1 kDa
Physical State	Lyophilized
Formulation	PBS, pH7.4, containing 0.01% SKL, 5% Trehalose.

Target Information

In mice, Prothrombin (F2) is a vitamin K-dependent glycoprotein synthesized in the liver, playing a critical role in blood coagulation and hemostasis. It is converted into thrombin by Factor Xa, which then catalyzes the transformation of fibrinogen into fibrin, forming blood clots. F2 also participates in platelet aggregation and the activation of additional coagulation factors. Most mice lacking F2 die during the embryonic stage due to vascular defects, while rare survivors often succumb to hemorrhage shortly after birth. F2 is involved in various physiological processes, including cell proliferation, tissue repair, and angiogenesis. It also helps maintain vascular integrity during development and postnatal life. Abnormalities in F2 have been linked to thrombosis and dysprothrombinemia, making it a key target in coagulation research and anticoagulant therapy.

Protein	Mouse Prothrombin (F2)
Protein Synonym	Coagulation factor II; Activation peptide fragment 1; Activation peptide fragment 2; Thrombin light chain; Thrombin heavy chain; F2; Cf2
Gene ID	14061

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 10 mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. 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.