

Native Human F2 Protein, GMP Grade

Product Information
Cat#
F2-106THP
Common Name
F2
Product Name
Native Human F2 Protein, GMP Grade
Product Overview
Native Human F2 Protein was purified from Human Plasma and was produced in an animal component free process under cGMP guidelines.
Description
This gene encodes the prothrombin protein (also known as coagulation factor II). This protein is proteolytically cleaved in multiple steps to form the activated serine protease thrombin. The activated thrombin enzyme plays an important role in thrombosis and hemostasis by converting fibrinogen to fibrin during blood clot formation, by stimulating platelet aggregation and by activating additional coagulation factors. Thrombin also plays a role in cell proliferation, tissue repair, and angiogenesis as well as maintaining vascular integrity during development and postnatal life. Peptides derived from the C-terminus of this protein have antimicrobial activity against E. coli and P. aeruginosa. Mutations in this gene lead to various forms of thrombosis and dysprothrombinemia. Rapid increases in cytokine levels following coronavirus infections can dysregulate the coagulation cascade and produce thrombosis, compromised blood supply, and organ failure.
Source
Human Plasma
Species
Human

Fax:1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA



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Molecular Mass

Not Available

AA Sequence

MAHVRGLQLPGCLALAALCSLVHSQHVFLAPQQARSLLQRVRRANTFLEEVRKGNLERECVEETCSYEEAFE ALESSTATDVFWAKYTACETARTPRDKLAACLEGNCAEGLGTNYRGHVNITRSGIECQLWRSRYPHKPEINSTT HPGADLQENFCRNPDSSTTGPWCYTTDPTVRRQECSIPVCGQDQVTVAMTPRSEGSSVNLSPPLEQCVPDR GQQYQGRLAVTTHGLPCLAWASAQAKALSKHQDFNSAVQLVENFCRNPDGDEEGVWCYVAGKPGDF GYCDLNYCEEAVEEETGDGLDEDSDRAIEGRTATSEYQTFFNPRTFGSGEADCGLRPLFEKKSLEDKTERELLES YIDGRIVEGSDAEIGMSPWQVMLFRKSPQELLCGASLISDRWVLTAAHCLLYPPWDKNFTENDLLVRIGKHSRT RYERNIEKISMLEKIYIHPRYNWRENLDRDIALMKLKKPVAFSDYIHPVCLPDRETAASLLQAGYKGRVTGWGNL KETWTANVGKGQPSVLQVVNLPIVERPVCKDSTRIRITDNMFCAGYKPDEGKRGDACEGDSGGPFVMKSP FNNRWYQMGIVSWGEGCDRDGKYGFYTHVFRLKKWIQKVIDQFGE

Endotoxin

<0.001 EU/µg by the LAL method

Applications

The product is indicated as an aid to hemostasis whenever oozing blood and minor bleeding from capillaries and small venules are accessible and control of bleeding by standard surgical techniques (such as suture, ligature, or cautery) is ineffective or impractical.

Usage

Oozing blood and minor bleeding

Gene Name

F2 coagulation factor II (thrombin) [Homo sapiens (human)]

Official Symbol

<u>F2</u>

Synonyms

F2; coagulation factor II (thrombin); prothrombin; serine protease; prothrombin B-chain; PT;

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THPH1;
GenelD
<u>2147</u>
mRNA Refseq
NM_000506
Protein Refseq
<u>NP 000497</u>
MIM
176930
UniProt ID
<u>P00734</u>

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