

Recombinant Full Length Human F9 Protein, GST-tagged

Cat. No. F9-4418HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human F9 full-length ORF (NP_000124.1, 1 a.a. - 461 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	461 amino acids
Description	This gene encodes vitamin K-dependent coagulation factor IX that circulates in the blood as an inactive zymogen. This factor is converted to an active form by factor XIa, which excises the activation peptide and thus generates a heavy chain and a light chain held together by one or more disulfide bonds. The role of this activated factor IX in the blood coagulation cascade is to activate factor X to its active form through interactions with Ca⁺² ions, membrane phospholipids, and factor VIII. Alterations of this gene, including point mutations, insertions and deletions, cause factor IX deficiency, which is a recessive X-linked disorder, also called hemophilia B or Christmas disease. Alternative splicing results in multiple transcript variants encoding different isoforms that may undergo similar proteolytic processing. [provided by RefSeq, Sep 2015]
Molecular Mass	78.2 kDa
AA Sequence	MQRVNMIMAESPLITICLLGYLLSAECTVFLDHENANKILNRPKRYNSGKLEEFVQG NLERECMEEKCSFEEAREVFENTERTEFWKQYVDGDQCESNPCLNGGSKDDIN

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SYECWCPFGFEGKNCELDVTCTNIKNGRCEQFCKNSADNKVVCSTEGYRLAENQK
 SCEPAVPFPCGRVSVSQTSKLTRAETVFPDQVDYVNSTEATILDNITQSTQSFNDFT
 RVVGGEDAKPGQFPWQVVLNGKVDAFCGGSIVNEKWIVTAAHCVETGVKITVVAGE
 HNIEETEHTEQKRNIRIIPHHNYNAAINKYNHDIALLEDEPLVLNSYVTPICIADKEYT
 NIFLKFGSGYVSGWGRVFHKGRSALVLQYLRVPLVDRATCLRSTKFTIYNNMFCAGF
 HEGGRDSCQGDSSGPHVTEVEGTSFLTGIISWGEECAMKGKYGITYTKVSRVYNWIK
 EKTKLT

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

F9 coagulation factor IX [Homo sapiens]

Official Symbol

F9

Synonyms

F9; coagulation factor IX; Christmas disease; Factor IX; FIX; hemophilia B; plasma thromboplastic component; F9 p22; FIX F9; factor 9; factor IX F9; serine protease; Christmas factor; plasma thromboplastin component; P19; PTC; HEMB; THPH8; MGC129641; MGC129642;

Gene ID

2158

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mRNA Refseq	NM_000133
Protein Refseq	NP_000124
MIM	300746
UniProt ID	P00740

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