

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	<p>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]</p>
Molecular Mass	78.2 kDa
AA Sequence	MQRVNMIMAESPGLITICLLGYLLSAECTVFLDHENANKILNRPKRYNSGKLEEFVQG NLERECMEEKCSFEEAREVFENTERTEFWKQYVDGDQCESNPCLNGGCKDDIN

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SYECWCPFGFEGKNCELDVTCTNIKNGRCEQFCKNSADNKVVCSCTEGYRLAENQK
 SCEPAVPFPCGRVSVSQTSLTRAETVFPDVDYVNSTEAEITLDNITQSTQSFNDFT
 RVVGGEDAKPGQFPWQVVLNGKVDAFCGGSIVNEKWIVTAAHCVETGVKITVVAGE
 HNIETEHTEQKRN VIRIIPHHNYNAAINKYNHDIALLELDEPLVLNSYVTPICIAADKEYT
 NIFLKFGSGYVSGWGRV FHKGRSALVLQYLRVPLVDRATCLRSTKFTIYNNMFCAGF
 HEGGRDSCQGDSSGPHVTEVEGTSFLTGIISWGEECAMKGGYGIYTKVSRVYVNWIK
 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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