

Native Human F9

Cat. No. F9-26523TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Full length native Human Factor IXa purified from Human plasma, with the active site labeled by incubation with Fluorescein-Phe-Phe-Arg-CMK, MWt 45kDa.
Species	Human
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.
Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 0.1M Sodium chloride, 0.1M HEPES, 1mM EDTA, pH 7.4
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

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Full Length Full L.

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;

Gene ID 2158

mRNA Refseq NM_000133

Protein Refseq NP_000124

Uniprot ID P00740

Chromosome Location Xq26.3-q27.1

Pathway Blood Clotting Cascade, organism-specific biosystem; Complement and Coagulation Cascades, organism-specific biosystem; Complement and coagulation cascades, organism-specific biosystem; Complement and coagulation cascades, conserved biosystem; Extrinsic Pathway, organism-specific biosystem;

Function calcium ion binding; peptidase activity; serine-type endopeptidase activity;

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