

Active Native Human F9 Protein

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

SPECIFICATION

Product Overview	Human factor IX is prepared from fresh frozen plasma by a combination of conventional procedures and immunoaffinity chromatography. Extinction coefficient: 13.2 Isoelectric point: 4.2-4.5 Percent carbohydrate: 17%
Species	Human
Source	Plasma
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.
Bio-activity	258 Units/mg
Molecular Mass	55 kDa

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Purity	> 95% by SDS-PAGE
Stability	Shelf Life (properly stored): 12 months
Storage	Store at -20 centigrade
Concentration	5.1 mg/mL
Storage Buffer	50% glycerol/water (v/v)

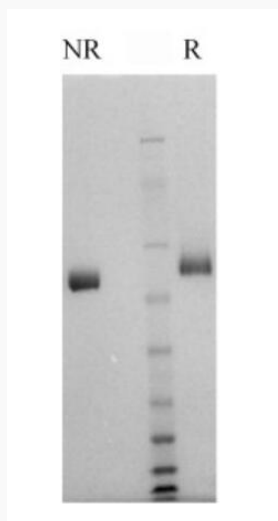
GENE INFORMATION

Gene Name	F9 coagulation factor IX [Homo sapiens (human)]
Official Symbol	F9
Synonyms	F9; coagulation factor IX; FIX; P19; PTC; HEMB; THPH8; F9 p22; coagulation factor IX; Christmas factor; factor 9; factor IX F9; plasma thromboplastic component; plasma thromboplastin component; EC 3.4.21.22
Gene ID	2158
mRNA Refseq	NM_000133
Protein Refseq	NP_000124
MIM	300746
UniProt ID	P00740

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SDS-PAGE

Gel: Novex 4-12% Bis-Tris

Load: Human Factor IX, 1 µg per lane

Buffer: MOPS

Standard: See Blue Plus 2; Myosin (191 kDa), Phosphorylase B (97 kDa), BSA (64 kDa), Glutamic Dehydrogenase (51 kDa), Alcohol Dehydrogenase (39 kDa), Carbonic Anhydrase (28 kDa), Myoglobin Red (19 kDa), Lysozyme (14 kDa)

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