

Active Recombinant Human F9 Protein, His-tagged

Cat. No. F9-013H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active recombinant human C-terminal His-tagged coagulation factor IX (29-461) was expressed in HEK293 cells.
Species	Human
Source	HEK293
ProteinLength	29-461
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.
Form	Lyophilized
Bio-activity	Measured by its ability to cleave the peptide substrate Z-D-Arg-Gly-Arg-pNA. The specific activity is > 20 pmols/min/ µg.

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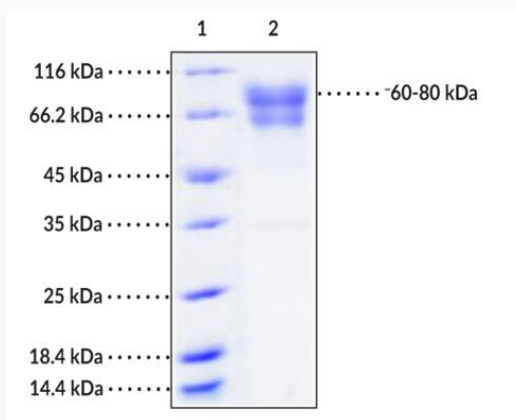
Molecular Mass	50 kDa
Endotoxin	<1.0 EU/ µg, determined by the LAL endotoxin assay.
Purity	≥95% as determined by SDS-PAGE
Stability	≥ 2 years
Storage	At -80 centigrade.
Storage Buffer	Sterile PBS, pH 7.4
GENE INFORMATION	
Gene Name	F9 coagulation factor IX [Homo sapiens (human)]
Official Symbol	F9
Synonyms	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 analysis
of Coagulation
Factor IX**



Lane 1: MW Markers

Lane 2: Coagulation Factor IX

This protein has a calculated molecular weight of 50 kDa. It has an apparent molecular weight of approximately 60-80 kDa by SDS-PAGE under reducing conditions due to glycosylation.