

Active Native Human F9 Protein

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

SPECIFICATION

| | |
|-------------------------|---|
| Product Overview | <p>Human factor IX is prepared from fresh frozen plasma by a combination of conventional procedures and immunoaffinity chromatography.</p> <p>Extinction coefficient: 13.2</p> <p>Isoelectric point: 4.2-4.5</p> <p>Percent carbohydrate: 17%</p> |
| Species | Human |
| Source | Plasma |
| 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 Ca²⁺ 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.</p> |
| Bio-activity | 258 Units/mg |
| Molecular Mass | 55 kDa |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

| | |
|-----------------------|---|
| 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

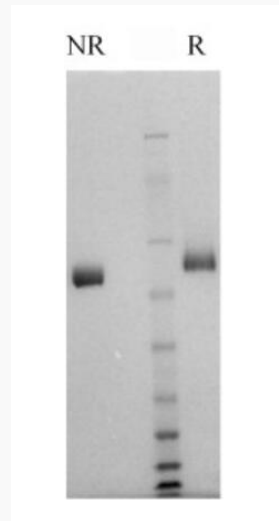
| | |
|------------------------|--|
| Gene Name | F9 coagulation factor IX [Homo sapiens (human)] |
| Official Symbol | F9 |
| Synonyms | F9; coagulation factor IX; FIX; P19; PTC; HEMB; THPH8; F9 p22; coagulation factor IX; Christmas factor; factor 9; factor IX F9; plasma thromboplastic component; plasma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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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)

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA