

Product datasheet

Natural rat Factor IX protein ab95131

Overview

Product name	Natural rat Factor IX protein
Protein length	Full length protein

Description

Nature	Native
Source	Native

Amino Acid Sequence

Species	Rat
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Specifications

Our [Abpromise guarantee](#) covers the use of **ab95131** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Biological activity	17.7 U/mg (One unit is equivalent to the Factor IX activity in one milliliter of normal human plasma.) Activity is measured using a Factor IX clotting assay.
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Applications	SDS-PAGE Functional Studies
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Purity	> 95 % SDS-PAGE. ab95131 is prepared from fresh frozen plasma by a combination of conventional procedures and immunoaffinity chromatography.
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Form	Liquid
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Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C. Preservative: None Constituents: 50% Glycerol This product is an active protein and may elicit a biological response in vivo, handle with caution.
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General Info

Function	Factor IX is a vitamin K-dependent plasma protein that participates in the intrinsic pathway of blood coagulation by converting factor X to its active form in the presence of Ca(2+) ions, phospholipids, and factor VIIIa.
Tissue specificity	Synthesized primarily in the liver and secreted in plasma.
Involvement in disease	Defects in F9 are the cause of recessive X-linked hemophilia B (HEMB) [MIM:306900]; also known as Christmas disease. Note=Mutations in position 43 (Oxford-3, San Dimas) and 46 (Cambridge) prevents cleavage of the propeptide, mutation in position 93 (Alabama) probably fails to bind to cell membranes, mutation in position 191 (Chapel-Hill) or in position 226 (Nagoya OR Hilo) prevent cleavage of the activation peptide. Defects in F9 are the cause of thrombophilia due to factor IX defect (THR-FIX) [MIM:300807]. A hemostatic disorder characterized by a tendency to thrombosis.
Sequence similarities	Belongs to the peptidase S1 family. Contains 2 EGF-like domains. Contains 1 Gla (gamma-carboxy-glutamate) domain. Contains 1 peptidase S1 domain.
Domain	Calcium binds to the gamma-carboxyglutamic acid (Gla) residues and, with stronger affinity, to another site, beyond the Gla domain.
Post-translational modifications	Activated by factor XIa, which excises the activation peptide. The iron and 2-oxoglutarate dependent 3-hydroxylation of aspartate and asparagine is (R) stereospecific within EGF domains.
Cellular localization	Secreted.

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