

Active Native Bovine Factor Ixa

Cat. No. Fixa-278B **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species Bovine

Source Plasma

Description

Factor IXa is produced from its inactive precursor, factor IX, via proteolytic cleavage by factor XIa or the tissue factor/factor VIIa/phospholipid complex. The activation results from the cleavage of two peptide bonds in the factor IX molecule, releasing an activation glycopeptide with an apparent molecular weight of 10,000. The heavy chain of factor IXa (Mr=28,000) contains the serine protease catalytic domain, while the light chain (Mr=17,000) contains the membrane binding domain. Factor IXa functions as a serine protease involved in the activation of the zymogen, factor X, to form the enzyme, factor Xa. The factor IXa enzymatic activity is greatly enhanced by inclusion of its cofactor, factor VIIIa, in the presence of calcium ions on a phospholipid surface. Factor IXa is readily inhibited by antithrombin III, and this inhibition is greatly accelerated by the presence of heparin. Factor IXa is not inhibited by DFP.

Form 50% glycerol/water (v/v)

Bio-activity Factor IX clotting assay

Purity >95% by SDS-PAGE. NOT tissue/cell culture grade. Not tested for endotoxin.

Characteristic Extinction coefficient:14.0, Structure: 2 subunits, Mr=28,000 and 17,000 (5), NH2-

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terminal gla-domain, two EGF domains

Storage

-20°C

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