CREATIVE BIOMART®
Assay Kit

Factor XIa Activity Assay Kit (Colorimetric)

Product Information

Cat

Kit-1050

Common Name

Factor

Cat.No. Kit-1050

Description

Factor XI or plasma thromboplastin antecedent (EC 3.4.21.27), the zymogen form of factor XIa, is a serine protease. In humans, Factor XI is encoded by the F11 gene. Factor XI (FXI) circulates as a homo-dimer in its inactive form activated into factor XIa by factor XIIa (FXIIa) via the "contact pathway", thrombin, and self-activation by its active form (FXIa). The deficiency of factor XI causes the rare hemophilia C which is an autosomal recessive disorder characterized by lower spontaneous bleeding, but excessive blood loss during surgical procedures. Low levels of factor XI also occur in many other disease states, including Noonan syndrome. High levels of factor XI have been implicated in thrombosis. Factor XIa also activates factor IX which, in turn, activates factor X in the coagulation cascade. Factor XIa activity assay kit utilizes the ability of factor XIa to cleave a synthetic substrate to release p-Nitroaniline (pNA) which can be quantitatively measured by a colorimetric assay (OD 405 nm). The kit is easy-to-use and can detect Factor XIa (as low as 1 mPEU) from plasma and purified protein samples.

Applications

Measurement of Factor XIIIa activity in plasma samples and purified/crude enzyme preparations

Storage

-20°C

Shipping

Gel Pack

Size

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

Email:info@creative-biomart.org

Fax:1-631-938-8127

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

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Assay Kit

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100 assays

Kit Components

FXIa Assay Buffer; FXIa Activator; Inhibitor 1; Inhibitor 2; FXIa Substrate; Human Factor XIa; pNA Standard (0.1 M)

Target Species

Mammalians

Detection method Colorimetric (Absorbance 405 nm)

Features & Benefits

Simple, rapid & convenient assay to measure Factor XIa;
Includes Positive Control and Factor Xia and Factor XIIa Inhibitors

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