CREATIVE BIOMART®
Assay Kit

Factor Xa Inhibitor Screening Kit (Fluorometric)

Product Information

Cat

Kit-2346

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Product Overview

Factor Xa (FXa) is the activated form of the coagulation factor X (Stuart-Power factor, thrombokinase, prothrombinase, thromboplastin, E.C.3.4.21.6). Factor X, a serine endopeptidase, plays an important role at several stages of the coagulation pathway. It acts by converting prothrombin into active thrombin by complexing with activated co-factor V in the prothrombinase complex. Unfractionated heparin and various low molecular weight heparins bind to plasma cofactor Antithrombin to inactivate several coagulation factors including factor Xa. Factor Xa inhibitor screening kit utilizes the ability of Factor Xa to cleave a synthetic substrate thereby releasing a fluorophore, AMC, which can be quantified by a fluorescence reader. In the presence of an inhibitor, the extent of the cleavage reaction is reduced or completely abolished. The loss in the fluorescence intensity can be correlated to the amount of inhibitor present in the assay solution. The Factor Xa Inhibitor Screening Kit is a simple, straightforward, high-throughput assay to screen Factor Xa inhibitors.

Applications

Screening potential inhibitors of Factor Xa
Characterizing/studying Factor Xa inhibitors in plasma samples

Storage

-20°C

Shipping

Gel Pack

Size

100 assays

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Kit Components

FXa Dilution Buffer; FXa Assay Buffer; FXa Enzyme; FXa Substrate; FXa Inhibitor (GGACK Dihydrochloride, 10 mM)

Detection method Fluorescence (Ex/Em = 350/450 nm)

Features & Benefits

Simple and reliable test to screen/study/characterize Fxa inhibitors; High-throughput; Includes Inhibitor Control (GGACK Dihydrochloride)

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