CREATIVE BIOMART®
Assay Kit

Factor VIIIa Activity Fluorometric Assay Kit

Product Information

Cat

Kit-0336

Common Name

Factor

Cat.No. Kit-0336

Product Overview

Convenient, and rapid
The assay can detect activity as low as 1 ng of FVIIIa in a variety of samples.

Description

The coagulation Factor VIII, also known as anti-hemophilic factor (AHF) is a vital blood-clotting protein. Factor VIII circulates in the bloodstream as an inactive protein, bound to a large multimeric glycoprotein called von Willebrand factor (VWF). Upon an injury to the blood vessel, VWF dissociates from FVIII and releases the active form of FVIII (FVIIIa). In the presence of calcium ions and negatively charged membrane phospholipids, activated factor VIII (FVIIIa) then binds to the activated Factor IX (FIXa) and proteolytically activates factor X (FX) to factor Xa (FXa). Factor VIIIa Activity Assay kit is based on the ability of FVIIIa to generate FXa. The generated FXa proteolytically cleaves a synthetic substrate and releases a fluorophore, AMC, which can be easily quantified by fluorescence microplate reader. The assay is simple, rapid and can detect activity as low as 1 ng of FVIIIa in a variety of samples.

Applications

Determine activity of pure FVIIIa-Detect activity of FVIIIa in plasma, and serum

Usage

For Research Use Only! Not For Use in Humans.

Storage

-20°C

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Size

100 assays

Kit Components

- FVIIIa Assay Buffer
- FXa Substrate-AMC
- Enzyme Mix I
- Enzyme Mix II
- Phospholipids
- FVIIIa Enzyme Standard (2.6 μg)

Detection method Fluorescence (Ex/Em = 360/450 nm)

Compatible Sample Types

- Purified enzyme
- Serum, plasma

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