CREATIVE BIOMART®
Assay Kit

F7 (Human) Chromogenic Activity Assay Kit

Product Information

Cat.No. Kit-0334

Product Overview

F7 (Human) Chromogenic Activity Assay Kit is developed to determine human F7 activity in plasma and cell culture supernatants.

Description

Factor VII (FVII) is a vitamin K-dependent plasma glycoprotein that is synthesized in the liver and circulates in blood as a single-chain inactive zymogen with a molecular mass of 50 kDa. Upon tissue damage and vascular injury, the cell surface receptor and cofactor tissue factor (TF) binds and allosterically activates FVII to its active form, FVIIa. The TF/FVIIa complex catalyzes the conversion of both factor IX to factor IXa and factor X to factor Xa to initiate coagulation via the extrinsic pathway. Very low levels of FVII are associated with severe coagulation disorders. Elevated plasma levels of FVII coagulant activity constitute an independent risk factor for fatal outcomes of coronary heart disease in middle-aged men.

Target Species

Human

Usage

For research use only (RUO)

Storage

Upon arrival, immediately store components of the kit at recommended temperatures up to the expiration date.Store FVII Standard, FX, rhTF, and FXa Substrate at -20°C.Store Microplate, Assay Diluent, EIA Diluent Concentrate (10x), and Wash Buffer Concentrate (20x) at 2-8°C.Unused microplate wells may be returned to the foil pouch with the desiccant packs and resealed. May be stored for up to 30 days in a vacuum desiccator.EIA Diluent (1x) and Wash Buffer (1x) may be stored for up to 30 days at 2-8°C.

Kit Components

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

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Human FVII Microplate: One 96-well polystyrene microplate coated with a polyclonal antibody against human FVII. 96 (8x12) wellsSealing Tapes: Pre-cut, pressure-sensitive sealing tapes that can be cut to fit the format of the individual assay. 3 slicesHuman FVII Standard: Lyophilized (0.26 IU, 91 ng). 1 vialEIA Diluent Concentrate (10x): A 10-fold concentrated buffered protein base. 20 mLWash Buffer Concentrate (20x): A 20-fold concentrated buffered surfactant. 30 mLAssay Diluent: A ready to use diluent. 20 mLrhTF (Lipoprotein): Recombinant human TF lipoprotein, lyophilized. 1 vialHuman FX: Lyophilized. 1 vialFXa Substrate: Lyophilized. 2 vials

Compatible Sample Types

Cell Culture Supernatant, Plasma, Serum

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