CREATIVE BIOMART®
Assay Kit

GZMB Assay/Inhibitor Screening Fluorometric Kit

Product Information

Cat.No.

Kit-0404

Product Overview

GZMB Assay/Inhibitor Screening Kit (Fluorometric) is used for screening granzyme B inhibitors or characterize/study of granzyme B inhibitors using fluorometric methods.

Description

Granzyme B (GZMB, EC number 3.4.21.79) also known as Granzyme-2 is a serine protease stored in the granules of activated cytotoxic T cells and NK cells. Upon target cell contact, Granzyme B is directionally exocytosed and with the assistance of perforin enters the target cell. With its unique substrate specificity (Granzyme B prefers an aspartic acid residue at the P1 site of its substrates), Granzyme B processes and activates various pro-caspases thereby inducing apoptosis in the target cell. In GZMB Activity Assay Kit (Fluorometric), we have utilized a peptide substrate containing the Granzyme B recognition sequence along with a fluorescent label "AFC". Granzyme B catalyzes the cleavage of this substrate and releases the AFC molecule, which can be detected fluorometrically (Ex/Em = 380/500 nm). This Assay Kit is rapid, reliable and sensitive and can detect Granzyme B activity in various biological samples.

Applications

Screening Granzyme B inhibitors.Characterize/Study Granzyme B inhibitors.

Usage

For research use only (RUO)

Storage

Store kit at -20°C, protected from light. Warm Assay Buffer to room temperature before use. Briefly centrifuge small vials before opening. Read the entire protocol before performing the assay.

Kit Components

Granzyme B Assay Buffer 25 mlGranzyme B Substrate 500 μlGranzyme B Enzyme (human

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recombinant) 1 vialInhibitor Control (Ac-IEPD-CHO, 250 μM) 20 μl

Detection method Fluorometric

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