CREATIVE BIOMART®
Assay Kit

GZMB Activity Fluorometric Assay Kit

Product Information

Cat.No. Kit-0403

Product Overview

GZMB Activity Assay Kit (Fluorometric) is used for measuring granzyme B activity 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

Measurement of Granzyme B activity in various biological samples or purified Granzyme B activity.Study & characterize 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 prior to opening.

Kit Components

Granzyme B Assay Buffer 25 mlGranzyme B Substrate 0.5 mlPositive control (Granzyme B Enzyme,

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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human recombinant) 1 vialAFC Standard (1 mM) 0.1 ml

Detection method Fluorometric

Compatible Sample Types

Biological samples

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