CREATIVE BIOMART®
Assay Kit

Neuraminidase Fluorometric Assay Kit (Blue)

Product Information

Cat.No. Kit-0619

Product Overview

Neuraminidase Assay Kit (Fluorometric-Blue) provides a sensitive and robust fluorometric assay to detect neuraminidase that exists either in cells or biological samples. The non-fluorescent neuraminidase substrate becomes strongly fluorescent upon neuraminidase cleavage. The kit can detect as little as 0.3 mU/mL neuraminidase in a 100 µL assay volume. The assay can be performed in a convenient 96-well or 384-well microtiter-plate format and easily adapted to automation without a separation step. The signal can be easily read by a fluorescence microplate reader at Ex/Em = ~320/~450 nm.

Description

Neuraminidases, also called sialidases, are glycoside hydrolase enzymes that catalyze the hydrolysis of terminal sialic acid residues and neuraminic acids. The most commonly known neuraminidase is the viral neuraminidase. The cleavage of linkage between sialic acid and adjacent sugar residue permits the transport of the virus through mucin and destroys the haemagglutinin receptor on the host cell, thus allowing elution of progeny virus particles from infected cells. Neuraminidase promotes influenza virus release from infected cells and facilitates virus spread within the respiratory tract. Thus, it is an important target for influenza drug development. The detection of neuraminidase and screening its inhibitors is one of the essential tasks for investigating biological processes and prevention of influenza infection.

Applications

Functional Studies

Target Species

Reacts with: HumanPredicted to work with: all Mammals

Storage

Keep at -20°C. Avoid exposure to moisture and light.

Kit Components

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Email:info@creative-biomart.org
Fax:1-631-938-8127
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Components 200 testsAssay Buffer 1 x 20mlNeuraminidase Standard 1 x 0.1 unitNeuro Blue Indicator 1 vial

Compatible Sample Types

Cell culture supernatant, Cell culture extracts, Adherent cells, Suspension cells, Tissue Culture Media

Sensitivity

0.3 mU/ml

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