CREATIVE BIOMART®
Assay Kit

HDAC Inhibitor Drug Screening Kit (Fluorometric)

Product Information

Cat

Kit-2347

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Product Overview

Inhibition of histone deacetylase (HDAC) has been implicated to modulate transcription and to induce apoptosis or differentiation in cancer cells. However, screening of compounds for HDAC inhibition has been difficult due to the lack of convenient tools for analyzing HDAC activity. The new HDAC Inhibitor Drug Screening Kit provides a fast, fluorescence-based method that eliminates radioactivity, extractions, or chromatography, as used in traditional assays. The new procedure requires only two easy steps, both performed on the same microtiter plate. First, your inhibitor candidates are mixed with HeLa Nuclear Extract and HDAC fluorometric substrate, which comprises an acetylated lysine side chain. Deacetylation of the substrate sensitizes the substrate, so that, in the second step, trea;ent with the Lysine Developer produces a fluorophore. The fluorophore can be easily analyzed using a fluorescence plate reader or a fluorometer. The assay is well suited for high throughput screening applications.

Applications

Screening of compounds for HDAC inhibition by analyzing HDAC activity

Storage

-80°C

Shipping

Dry Ice

Size

100 assays

Kit Components

HDAC Substrate [Boc-Lys(Ac)-AMC, 4 mM]; 10X HDAC Assay Buffer; Lysine Developer; HDAC Inhibitor

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(Trichostatin A, 1 mM); HeLa Nuclear Extract (5 mg/ml)

Target Species

Mammalian

Detection method Fluorescence (Ex/Em 350-380/440-460 nm)

Features & Benefits

Simple two-step procedure;
Fast fluorescence-based method that eliminates radioactivity, extractions, or chromatography;
The assay is well suited for high throughput screening applications.

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