CREATIVE BIOMART®
Assay Kit

HDAC Inhibitor Assay Kit

Product Information

Cat.No. Kit-0427

Product Overview

HDAC Inhibitor Assay Kit is used for screening HDAC inhibitors.

Description

Inhibition of histone deacetylases (HDACs) has been implicated to modulate transcription and to induce apoptosis or differentiation in cancer cells. However, screening HDAC inhibitory compounds has proven to be difficult over the past due to the lack of convenient tools for analyzing HDAC activity. The HDAC Activity Assay Kit (Colorimetric) provides a fast and convenient colorimetric method that eliminates radioactivity, extractions, or chromatography, as used in the traditional assays. The new method requires only two easy steps, both performed on the same microtiter plate. First, the HDAC colorimetric substrate, which comprises an acetylated lysine side chain, is incubated with a sample containing HDAC activity (e.g., HeLa nuclear extract or your own samples). Deacetylation of the substrate sensitizes the substrate, so that, in the second step, treatment with the Lysine Developer produces a chromophore. The chromophore can be easily analyzed using an ELISA plate reader or spectrophotometer. The assay is well suited for high throughput screening applications. HDAC inhibitors and antibodies are also available separately

Target Species

Mammals

Usage

For research use only (RUO)

Storage

Store the kit at -20°C.

Kit Components

1. HDAC Substrate [Boc-Lys(Ac)- pNA, 10 mM]: 500 µl2. 10X HDAC Assay Buffer: 1 ml.3. Lysine Developer: 1 ml.4. HDAC Inhibitor (Trichostatin A, 1 mM) : 10 µl5. HeLa Nuclear Extract (5 mg/ml): 10

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µl.6. Deacetylated Standard [(Boc-Lys-pNA, 10 mM]: 20 µl.

Detection method Fluorometric

Compatible Sample Types

Biological Fluid, Cell Lysate, Culture Medium, Plasma, Serum, Tissue Lysate, Urine

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