CREATIVE BIOMART®
Assay Kit

HDAC3 Inhibitor Screening Kit

Product Information

Cat.No. Kit-0432

Product Overview

HDAC3 Inhibitor Screening Kit is used for screening HDAC3 inhibitor.

Description

Histone deacetylases (HDACs) represent a large family of enzymes identified as key regulators of nucleosomal histone acetylation, a major event that controls eukaryotic gene transcription and are classified into three groups. They are believed to be involved in important biological activities, such as cell differentiation, proliferation, apoptosis, and senescence. In HDAC3 Inhibitor Screening Kit, HDAC-3 and developer will deacetylate and cleave the substrate [Arg-His-Lys-Lys(Ac)-AFC] to release the AFC molecule, which can be detected by fluorometric method (Ex/Em = 380/500 nm). In presence of a HDAC-3 inhibitor, the cleavage will be inhibited. The kit provides a rapid, simple, sensitive, and reliable test, which is also suitable for high throughput screening of HDAC-3 inhibitors. Trichostatin A (TSA) is included as a control inhibitor to compare the efficacy of the test inhibitors.

Usage

For research use only (RUO)

Storage

Store the kit at -20°C, protect from light. Store HDAC-3 enzyme at -80°C. Allow Assay Buffer to warm to room temperature before use. Briefly centrifuge vials before opening. Read the entire protocol before performing the assay.

Kit Components

HDAC3 Assay Buffer. Cap color: WM. 25 mlHDAC3 Substrate. Cap color: red. 200 µlHDAC-3 Enzyme. Cap color: green. 200 µlDeveloper. Cap color: orange. 1 mlTrichostatin A. Cap color: blue. 50 µl

Detection method Fluorometric

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