

HDAC3 Activity Assay Kit

Product Information

Cat.No.

Kit-0431

Product Overview

HDAC3 Activity Assay Kit is a quantitative fluorometric determination of HDAC3 activity.

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. HDACs are transcriptional repressors with crucial roles in mammalian development. They are believed to be involved in important biological activities, such as cell differentiation, proliferation, apoptosis, and senescence. In HDAC3 Activity Assay Kit, HDAC-3 and Developer will deacetylate and cleave the substrate [R-H-K-K(Ac)- AFC] to release the AFC molecule, which can be detected fluorometrically (Ex/Em = 380/500 nm). The kit provides a rapid, simple, sensitive, and reliable test, which is also suitable for high throughput measurement of HDAC-3 activity in purified, immunoprecipitated and recombinant or genetically modified HDAC-3 samples.

Target Species

Mammals

Usage

For research use only (RUO)

Storage

Store the kit at -20°C, protect from light. Allow Assay Buffer to warm to room temperature before use. Briefly centrifuge vials before opening. Read the entire protocol before performing the assay. HDAC-3 Positive Control and HDAC-3 Substrate: Upon thawing aliquot and store at -20°C, use within 2 months. Developer and Trichostatin A: Store at -20°C; use within 2 months after first thaw. HDAC-3 Assay Buffer: Store at 4°C.

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Kit Components

HDAC3 Assay Buffer. Cap color: WM. 25 mlHDAC3 Substrate. Cap color: red. 200 μ lHDAC3 Positive Control. Cap color: green. 20 μ lAFC Standard (1 mM). Cap color: yellow. 100 μ lDeveloper. Cap color: orange. 1 mlTrichostatin A. Cap color: blue. 200 μ l

Detection method Fluorometric

Compatible Sample Types

Biological Fluid,Cell Lysate, Plasma, Serum, Tissue Lysate