CREATIVE BIOMART®
Assay Kit

# 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 prot ol 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.

**Kit Components**

Tel: 1-631-559-9269 1-516-512-3133
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45-1 Ramsey Road, Shirley, NY 11967, USA

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HDAC3 Assay Buffer. Cap color: WM. 25 mlHDAC3 Substrate. Cap color: red. 200 µlHDAC3 Positive Control. Cap color: green. 20 µlAFC Standard (1 mM). Cap color: yellow. 100 µlDeveloper. Cap color: orange. 1 mlTrichostatin A. Cap color: blue. 200 µl

**Detection method** Fluorometric

**Compatible Sample Types**

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

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