



## HDAC1 Inhibitor Screening Assay Kit

### Product Information

---

#### Cat.No.

Kit-0429

---

### Product Overview

---

HDAC1 Inhibitor Screening Assay Kit is a fluorescence-based method for screening HDAC1 inhibitors.

---

### Description

---

Nucleosomes, which fold chromosomal DNA, contain two molecules each of the core histones H2A, H2B, H3, and H4. Almost two turns of DNA are wrapped around this octameric core, which represses transcription. The histone amino termini extend from the core, where they can be modified post-translationally by acetylation, phosphorylation, ubiquitination, and methylation, affecting their charge and function. Acetylation of the  $\epsilon$ -amino groups of specific histone lysines is catalyzed by histone acetyltransferases (HATs) and correlates with an open chromatin structure and gene activation. Histone deacetylases (HDACs) catalyze the hydrolytic removal of acetyl groups from histone lysine residues and correlates with chromatin condensation and transcriptional repression. Therefore, HDAC inhibition results in transcriptional activation through the conformational relaxation of DNA. Changes in the transcription of key genes has linked HDAC inhibitors to blocking angiogenesis and cell cycling, and promoting apoptosis and differentiation. By targeting these key components of tumor proliferation, HDAC inhibitors are currently being explored as potential anticancer agents.

---

### Usage

---

For research use only (RUO)

---

### Storage

---

This kit will perform as specified if stored as directed at -80°C and used before the expiration date indicated on the outside of the box.  
HDAC Assay Buffer (10X) -20°C  
HDAC1 (human recombinant) -80°C  
HDAC Trichostatin A -20°C  
HDAC Substrate -20°C  
96-Well Plate (Black) Room temperature  
HDAC Developer -20°C  
96-Well Cover Sheet Room temperature

---

### Kit Components

---



CREATIVE **BIOMART**<sup>®</sup>  
Assay Kit

## HDAC1 Inhibitor Screening Assay Kit

HDAC Assay Buffer (10X) 1 vial HDAC1 (human recombinant) 1 vial HDAC Trichostatin A 1 vial HDAC Substrate 1 vial 96-Well Plate (Black) 1 plate HDAC Developer 2 vials 96-Well Cover Sheet 1 cover

---

Tel: 1-631-559-9269 1-516-512-3133

Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)

Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA