HDAC Fluorometric Assay Kit

Cat. No. GTX85528

Package
100 assay

PRODUCT

Summary

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

· Detection method- Fluorometer (Ex. = 350-380 nm and Em. = 440-460 nm)
· Sample type- Cell and Tissue lysates, culture media, urine, plasma and serum, as well as many other biological fluids
· Species reactivity- Mammalian
· Kit size- 100 assays
· Applications- Well suited for high throughput applications. HDAC inhibitors and substrates and related antibodies are also available separately.

Features and Benefits
· Simple two-step procedure; takes around than 1 hour
· Fast and convenient
· The assay method eliminates radioactivity/extractions/ and/or chromatography as used in the traditional assays.

Kit Contents:
HDAC Substrate [Boc-Lys(Ac)-AMC, 4 mM]
10X HDAC Assay Buffer
Lysine Developer
HDAC Inhibitor (Trichostatin A, 1 mM)
HeLa Nuclear Extract (5 mg/ml)
Deacetylated Standard [Boc-Lys-AMC, 4 mM]

Properties

Storage

Store at -20ºC. Product has an expected shelf life of 12 months.

Note

For laboratory research use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

Purchasers shall not, and agree not to enable third parties to, analyze, copy, reverse engineer or otherwise attempt to determine the structure or sequence of the product.

For full product information, images and publications, please visit our website.

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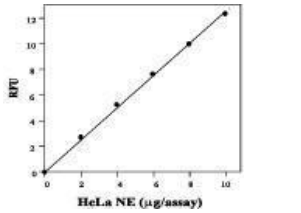
DATA IMAGES



GTX85528 Image

Analyses of HDAC Activity in HeLa Nuclear Extract. HeLa nuclear extract (NE) in various amounts were incubated with 5 µl HDAC fluorometric substrate. After 30 min, reactions were stopped with 10 µl Lysine Developer. Samples were then read in a fluorescence plate reader with Ex./Em. = 360/460 nm.

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