CREATIVE BIOMART®
Assay Kit

HDAC1 fluorometric drug discovery assay Kit

Product Information

Cat.No. Kit-0416

Product Overview

Useful for inhibitor screening or characterizing enzyme kineticsIncludes optimal substrate selected from a panel of acetylated sites in p53 and histonesSupplied with enough recombinant enzyme for 96 assays (1 x 96-well plate)

Size

96 wells

Description

A FLUOR DE LYS fluorescent assay system. The HDAC1 Fluorescent Activity Assay/Drug Discovery Kit is a complete assay system designed to measure the lysyl deacetylase activity of the recombinant human HDAC1 included in the kit. The kit is ideal for chemical library screening for candidate inhibitors or kinetic assay of the enzyme under varying conditions. The FLUOR DE LYS HDAC1 assay is based on the FLUOR DE LYS Substrate and FLUOR DE LYS Developer combination. The assay procedure has two steps. First, the FLUOR DE LYS Substrate, which comprises an acetylated lysine side chain, is incubated with HDAC1. Deacetylation of the substrate sensitizes the substrate so that, in the second step, treatment with the FLUOR DE LYSDeveloper produces a fluorophore.

Applications

Fluorescence microscopy, HTS

Storage

-80°C

Kit Components

HDAC1 (Histone Deacetylase 1) (human, recombinant) (50 µg; 10mM TRIS, pH 7.5, 100mM sodium chloride, 3mM magnesium chloride, 10% glycerol)Storage: -70°C, avoid freeze/thaw cyclesFLUOR DE LYS SIRT1, Deacetylase Substrate(100µl; 5mM solution in 50mM TRIS/Cl, pH 8.0, 137mM sodium chloride, 2.7mM potassium chloride, 1mM magnesium chloride)Storage: -70°CFLUOR DE LYS

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Developer II Concentrate (5x) (5 x 250 µl; 5x Stock Solution; Dilute in Assay Buffer before use)Storage: -70°CTrichostatin A (HDAC Inhibitor) (100 µl; 0.2mM in DMSO)Storage: -70°CFLUOR DE LYS Deacetylated Standard (30 µl; 10mM in DMSO)Storage: -70°CHDAC Assay Buffer II (50mM TRIS/Cl, pH 8.0, 137mM sodium chloride, 2.7mM potassium chloride, 1mM magnesium chloride, 1mg/ml bovine serum albumin) (20 ml)Storage: -70°CHDAC Assay Buffer (50mM TRIS/Cl, pH 8.0, 137mM sodium chloride, 2.7mM potassium chloride, 1mM magnesium chloride) (20 ml)Storage: -70°C1/2 volume microplate Storage: Room temperature1/2 volume white microplateStorage: Room temperature

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