

HDAC1 fluorometric drug discovery assay Kit

Cat. No. Kit-0416 **Lot. No.** (See product label)

SPECIFICATION

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 LYS Developer produces a fluorophore.
Applications	Fluorescence microscopy, HTS
Storage	-80°C
Kit Components	HDAC1 (Histone Deacetylase 1) (human, recombinant) (50 g; 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

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solution in 50mM TRIS/Cl, pH 8.0, 137mM sodium chloride, 2.7mM potassium chloride, 1mM magnesium chloride)Storage: -70°CFLUOR DE LYS 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°CCHDAC 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°CCHDAC 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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