

SIRT1 fluorometric drug discovery assay Kit

Cat. No. Kit-0785 **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 SIRT1 Fluorescent Activity Assay/Drug Discovery Kit is a complete assay system designed to measure the lysyl deacetylase activity of the recombinant human SIRT1 included in the kit. The kit is ideal for chemical library screening for candidate inhibitors or activators or kinetic assay of the enzyme under varying conditions. The FLUOR DE LYS SIRT1 assay is based on the FLUOR DE LYS SIRT1 Substrate and FLUOR DE LYS Developer II combination. The assay procedure has two steps. First, the FLUOR DE LYS SIRT1 Substrate, which contains a peptide comprising amino acids 379-382 of human p53 (Arg-His-Lys-Lys (Ac)). Deacetylation of the substrate sensitizes the substrate so that, in the second step, treatment with the FLUOR DE LYS Developer II produces a fluorophore.
Applications	Fluorescence microscopy, HTS
Storage	-80°C
Kit Components	SIRT1 (Sirtuin 1, hSir2SIRT1) (human, recombinant)(100 U; One U=1 pmol/min at 37°C, 250 μ M, FLUOR DE LYS Substrate, 500 μ M NAD; Recombinant enzyme

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dissolved in 25mM TRIS, pH 7.5, 100mM sodium chloride, 5mM dithiothreitol and 10% glycerol. See vial label for activity and protein concentrations)Storage: -70°C; AVOID FREEZE/THAW CYCLES!FLUOR 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 Developer II Concentrate (5x)(5 x 250 µl 5x Stock Solution; Dilute in Assay Buffer before use)Storage: -70°CNAD (Sirtuin Substrate)(500 µl 50 mM β-Nicotinamide adenine dinucleotide (oxidized form) in 50mM TRIS/CL, pH 8.0, 137mM sodium chloride, 2.7mM potassium chloride, 1mM magnesium chloride)Storage: -70°CNicotinamide (Sirtuin Inhibitor)(500µl 50 mM Nicotinamide in 50mM TRIS/Cl, pH 8.0, 137mM sodium chloride, 2.7mM potassium chloride, 1mM magnesium chloride)Storage: -70°CResveratrol (Sirtuin Activator)(10 mg; Solid MW: 228.2, soluble in DMSO or 100% ethanol (to 100mM)Storage: -70°CSuramin sodium (Sirtuin Inhibitor)(10 mg; Solid MW: 1429.2, soluble in water or assay buffer (to 25mM))Storage: -70°CFLUOR DE LYS Deacetylated Standard(30 µl 10mM in DMSO)Storage: -70°C Sirtuin Assay Buffer(50mM TRIS/Cl, pH 8.0, 137mM sodium chloride, 2.7mM potassium chloride, 1mM magnesium chloride, 1 mg/ml bovine serum albumin) (Prod. No. BML-KI286) (20 ml)Storage: -70°C1/2 volume microplateStorage: Room temperature1/2 volume white microplateStorage: Room temperature