FLUOR DE LYS® deacetylase substrate

Highly sensitive and convenient alternative to radiolabeled, acetylated histones or peptide/HPLC methods for the assay of histone deacetylases.

FLUOR DE LYS® Substrate is a highly sensitive and convenient alternative to radiolabeled, acetylated histones or peptide/HPLC methods for the assay of histone deacetylases. The FLUOR DE LYS® Substrate, which comprises an acetylated lysine side chain, is incubated with a sample containing HDAC activity (nuclear or cellular extract, purified enzyme, bead-bound immunocomplex, etc.). Deacetylation of the substrate sensitizes the substrate so that, in a second step, treatment with the FLUOR DE LYS® Developer produces a fluorophore. Histone deacetylases from all known classes have been successfully assayed with the FLUOR DE LYS® Substrate. These include human HDACs 1, 2, 3 and 8 (class I), human HDACs 4 and 9 (class II) and the sirtuins yeast Sir2, human SIRT1 and human SIRT2 (class III; reaction must include the sirtuin substrate NAD^+). The substrate is cell-permeable and serves as the basis for the HDAC Cellular Activity Assay Kit (Prod. No. BML-AK503). **NOTE:** Must be used in conjunction with FLUOR DE LYS® Developer (Prod. No. BML-KI105). Sufficient for 100-1000 assays of HDACs or sirtuins (50 µl reaction volume, 50-500 µM (substrate).

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BML-KI104-0050	50µl

Manuals, SDS & CofA View Online »

Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended.
Long Term Storage	-80°C
Shipping	Dry Ice

Regulatory Status

RUO - Research Use Only

Product Details

Formulation	Supplied as a 50 mM solution (50 µl) in dimethylsulfoxide (DMSO).
MW	387.4
Purity	≥95% (HPLC)
Quantity	2.5 µmol (50 µl)

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