

HDAC8 Activity Assay Kit

Cat. No. Kit-0433 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	HDAC8 Activity Assay Kit is a quantitative fluorometric determination of HDAC8 activity.
Description	Histone deacetylases (HDACs) represent a large family of enzymes identified as key regulators of nucleosomal histone acetylation, a major event that controls eukaryotic gene transcription and are classified into three groups. HDACs are transcriptional repressors with crucial roles in mammalian development. They are believed to be involved in important biological activities, such as cell differentiation, proliferation, apoptosis, and senescence. In HDAC8 Activity Assay Kit, HDAC-8 deacetylates the substrate (R-H-K(Ac)-K(Ac)-AFC) followed by an enzymatic cleavage to release the AFC molecule, which can be detected fluorometrically (Ex/Em = 380/500 nm). The kit provides a rapid, simple, sensitive, and reliable test, which is also suitable for high throughput measurement of HDAC-8 activity in purified, immunoprecipitated and recombinant or genetically modified HDAC-8 samples.
Target Species	Mammals
Usage	For research use only (RUO)
Storage	Store the kit at -20°C, protect from light. Allow Assay Buffer to warm to room temperature before use. Briefly centrifuge vials before opening. Read the entire protocol before performing the assay. HDAC-8 Positive Control and HDAC-8 Substrate: Upon thawing aliquot and store at -20°C, use within 2 months. Developer and Trichostatin A: Store at -20°C; use within 2 months. HDAC-8 Assay Buffer: Store

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at 4°C.

Kit Components

HDAC-8 Assay Buffer. Cap color: WM. 25 ml HDAC-8 Substrate. Cap color: red. 200 μ l HDAC-8 Positive Control. Cap color: green. 20 μ l AFC Standard (1 mM). Cap color: yellow. 100 μ l Developer. Cap color: orange. 1 ml Trichostatin A (10 μ M). Cap color: blue. 1 ml

Detection method

Fluorometric

Compatible Sample Types

Biological Fluid, Cell Lysate, Plasma, Serum, Tissue Lysate

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