

HDAC3 Activity Assay Kit

Cat. No. Kit-0431 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	HDAC3 Activity Assay Kit is a quantitative fluorometric determination of HDAC3 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 HDAC3 Activity Assay Kit, HDAC-3 and Developer will deacetylate and cleave the substrate [R-H-K-K(Ac)- AFC] 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-3 activity in purified, immunoprecipitated and recombinant or genetically modified HDAC-3 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-3 Positive Control and HDAC-3 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 after first thaw. HDAC-3 Assay Buffer: Store at

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	4°C.
Kit Components	HDAC3 Assay Buffer. Cap color: WM. 25 mlHDAC3 Substrate. Cap color: red. 200 μlHDAC3 Positive Control. Cap color: green. 20 μlAFC Standard (1 mM). Cap color: yellow. 100 μlDeveloper. Cap color: orange. 1 mlTrichostatin A. Cap color: blue. 200 μl
Detection method	Fluorometric
Compatible Sample Types	Biological Fluid,Cell Lysate, Plasma, Serum, Tissue Lysate

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