6044 Cornerstone Court West, Suite E
San Diego, CA 92121
Tel: 1.858.829.3082
Fax: 1.858.481.8694
Email: info@bpsbioscience.com

Data Sheet

Fluorogenic HDAC Substrate (Green fluorescence)

Catalog #: 50038
Lot#: 130903

DESCRIPTION: A fluorogenic, acetylated peptide substrate for HDACs. It is a suitable substrate for many HDACs, except class 2a HDACs.

PURITY: >95% by HPLC.

APPLICATIONS: Study enzyme kinetics, and screen small molecule inhibitors for drug discovery and HTS applications.

SUPPLIED AS: DMSO solution

QUANTITY: 50 µl @ 5 mM

STORAGE: -20°C or -70°C.

REFERENCES:

1. Ito, A., *et al., EMBO J.* 2001;**20**:1331.
2. Barlev, N.A., *et al., Mol Cell.* 2001;**8**:1243.

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ASSAY PROTOCOL:

Material: Assay buffer (BPS #50031); Assay developer (BPS #50030); HDAC Substrate (BPS #50038)

Step 1: Add all reaction mixture to a low binding NUNC black plate (VWR catalog number 62408-936)

2 µl of HDAC1 (0.33 µg/µl)
38 µl of HDAC assay buffer (BPS #50031)
5 µl of 1 mg/ml BSA
5 µl of 200 µM substrate (BPS #50038)

Incubate at 37 ºC for 30 min.

Step 2: Stop the reaction

Add 50 µl of HDAC assay developer (2x) (BPS #50030) and incubate the plate at room temperature for 15 min.

Step 3: Read sample in a microtiter-plate reading fluorimeter capable of excitation at a wavelength in the range of ~485 nm and detection of emitted light in the range of 528 nm. “Blank” value is subtracted from all other values.

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