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- Expressversand

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Data Sheet

Fluorogenic Sirtuin 6 Substrate

Catalog #: 50866

DESCRIPTION: A fluorogenic, myristoylated lysine peptide substrate for Sirtuin 6. This substrate should be used in conjunction with SIRT Developer, #50089. Optimal excitation wavelength 350–380 nm, emission wavelength 440–460 nm.

PURITY: >90% by HPLC.

APPLICATIONS: Suitable for use with BPS's Fluorogenic SIRT6 Assay Kit, #50022, and to study enzyme kinetics and screen small molecule inhibitors of Sirtuin 6 for drug discovery and HTS applications.

SUPPLIED AS: DMSO solution

QUANTITY: 50 µl @ 5 mM

STORAGE: -70°C. Avoid freeze/thaw cycles. Stable for at least 6 months from date of receipt when stored as directed. Protect from light.

REFERENCES:

1. Hu, J. *et al.*, 2013. *Org Biomol Chem*, **11(32)**:5213-5216.
2. Rahnasto-Rilla, M., *et al.*, 2016. *Methods Mol Biol*, **1436**:259-269.

ASSAY PROTOCOL:

Materials:

SIRT Assay Buffer (BPS Bioscience, # 50090)
SIRT6 Substrate (BPS Bioscience, #50866)
SIRT6 enzyme (BPS Bioscience, #50017) or other SIRT6-containing sample
NUNC black 96-well plate, low protein binding (VWR #62408-936).
Sirtuin Developer (2X) (BPS Bioscience, #50089)

Step 1:

Set up 50 µl of SIRT6 reactions containing SIRT assay buffer, 1 µg SIRT6 enzyme, and 5 µM SIRT6 substrate in the 96-well plate. Include a no-enzyme control reaction ("Blank") to determine background fluorescence. Incubate at 37°C for 30 minutes.

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Step 2:

Add 50 μ l of SIRT Assay Developer (2x) (BPS #50089) and incubate the plate at room temperature for 15 minutes.

Step 3:

Read sample in a microtiter-plate reading fluorimeter capable of excitation at a wavelength in the range 350-380 nm and detection of emitted light in the range 440-460 nm. "Blank" value is subtracted from all other values.

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