FLUOR DE LYS®-SIRT1 deacetylase substrate

FLUOR DE LYS®-SIRT1 is a fluorogenic, acetylated peptide substrate for SIRT1 (human Sirtuin 1). Based on residues 379-382 of p53 (Arg-His-Lys-Lys(Ac)), a site of regulatory acetylation by the p300 and CBP acetyltransferases (lysines 381, 382), it was the best substrate for SIRT1 from among a panel of substrates patterned on p53, histone H3, and histone H4 acetylation sites. FLUOR DE LYS®-SIRT1 is deacetylated by SIRT1 (BML-SE239) at a rate of more then 8-fold that of the acetylated lysine substrate, FLUOR DE LYS® (Prod. No. BML-KI104; acetylated substrates both at 25 µM, 500 µM NAD^+). The K_m of FLUOR DE LYS®-SIRT1 for human recombinant Sirtuin 1 is 108 µM (determined at 37°C, 500 µM NAD^+). Must be used in conjunction with FLUOR DE LYS® Developer II (Prod. No. BML-KI176). Fluorescent signal indicates deacetylation of Lys382. Sufficient for 100-200 assays of human recombinant SIRT1 (1U/well, 50-100 µM substrate).

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Ordering Information

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BML-KI177-0005	0.5µmol

Manuals, SDS & CofA

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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 5 mM solution in HDAC Assay Buffer.
Purity	≥95% (HPLC)
Quantity	0.5 µmol (100 µl)

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