

Sirtuin Activity Fluorometric Assay Kit

Cat. No. KITZ-049 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Sirtuin Activity Fluorometric Assay Kit is suitable for measuring activity/inhibition of total SIRT enzyme using nuclear extracts or purified SIRT isoforms (SIRTs1-7) from a broad range of species such as mammals, plants, fungi, and bacteria, in a variety of forms including, but not limited to cultured cells, fresh and frozen tissues. For SIRT1, SIRT6, and SIRT7, nuclear extracts are required and can be prepared by using your own successful method. For SIRT2, SIRT4, and SIRT5, cytoplasmic extracts are required. For SIRT3, mitochondria fractions should be used. Purified enzymes can be active SIRTs from recombinant proteins or isolated from cell/tissues.
Size	48 Assays or 96 Assays
Storage	The kit is shipped in two parts: the first part at ambient room temperature and the second part on frozen ice packs at 4°C.
Shipping	Ice pack
Kit Components	WB (10X Wash Buffer): 14 ml for 48 Assays, 28 ml for 96 Assays, 4°C HO1 (SIRT Assay Buffer): 4 ml for 48 Assays, 8 ml for 96 Assays, RT HO2 (SIRT Substrate, 50X): 60 µl for 48 Assays, 120 µl for 96 Assays, -20°C HO3 (SIRT Assay Standard, 50µg/ml): 10 µl for 48 Assays, 20 µl for 96 Assays, -20°C

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HO4 (Capture Antibody, 1000X): 5 µl for 48 Assays, 10 µl for 96 Assays, 4°C
HO5 (Detection Antibody, 2000X): 6 µl for 48 Assays, 12 µl for 96 Assays, -20°C
NAD (SIRT Co-factor, 50X): 50 µl for 48 Assays, 100 µl for 96 Assays, -20°C
TSA (HDAC inhibitor, 50µM): 50 µl for 48 Assays, 100 µl for 96 Assays, -20°C
NAM (SIRT Inhibitor, 50 mM): 40 µl for 48 Assays, 80 µl for 96 Assays, -20°C
FD (Fluoro Developer): 10 µl for 48 Assays, 20 µl for 96 Assays, -20°C
FE (Fluoro Enhancer): 10 µl for 48 Assays, 20 µl for 96 Assays, 4°C
DB (Dilution Buffer): 4 ml for 48 Assays, 8 ml for 96 Assays, RT
8-Well Assay Strips (With Frame): 6 for 48 Assays, 12 for 96 Assays, 4°C
Adhesive Covering Film: 1 for 48 Assays, 1 for 96 Assays, RT

**Materials Required
but Not Supplied**

Adjustable pipette or multiple-channel pipette
Multiple-channel pipette reservoirs
Aerosol resistant pipette tips
Fluorescence microplate reader capable of reading fluorescence at 530ex/590em nm
1.5ml microcentrifuge tubes
Incubator for 37°C incubation
Distilled water
Nuclear extract or purified enzymes
Parafilm M or aluminum foil

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