

SR FLICA Caspase 8 Assay Kit

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CATALOG #
AAA52737

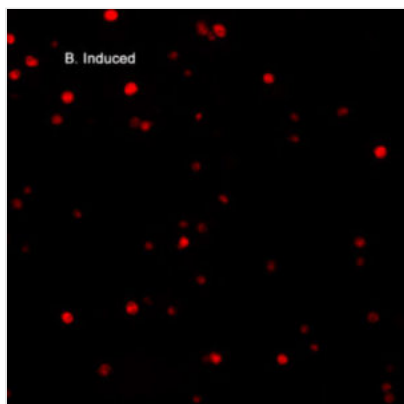
PRODUCT SYNONYMS

SR FLICA Caspase 8; SR FLICA Caspase 8 Assay Kit; SR FLICA Caspase 8 assay kit

PRODUCT SPECIFICATIONS

Samples	Cell culture
Target	Caspase-8
Excitation/Emission	550-580 nm / 590-600 nm
Reagent	SR-LETD-FMK
Reagent Name	SR-LETD-FMK
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Application Data

Jurkat cells were grown in suspension to 4×10^5 cells/mL, then divided into two separate TC-flasks. One population, "Non-Induced", received a DMSO vehicle control (A). The other population, "Induced", was spiked with 1 μ M staurosporine (B). Cells were incubated for 4 hours at 37 degree C, then stained with red SR-FLICA caspase-8 inhibitor, SR-LETD-FMK (kit catalog #9150) for 1 hour at 37 degree C. After labeling, samples were washed three times and slides were prepared. Fluorescence images were acquired using a Nikon Eclipse 90i microscope equipped with a Hamamatsu Flash 4.0 camera. In the treated sample, cells appear bright red, indicating a high level of caspase-8 activity (B, Induced, right). In the non-induced sample, few red positive cells are visible, indicating minimal caspase-8 activity (A, Non-Induced, left). Data courtesy of Mrs. Tracy Murphy (220:68, 121815).

ADDITIONAL INFORMATION

Related Product Information for SR FLICA Caspase 8 assay kit	Description: Detect caspase-8 activity with the SR-FLICA Caspase-8 Assay Kit. This in vitro assay employs the fluorescent inhibitor probe SR-LETD-FMK to label active caspase-8 enzymes in living cells. Analyze samples using fluorescence microscopy, a fluorescence plate reader, or flow cytometry. Background: Caspases play important roles in apoptosis and inflammation. The FLICA assay kits are used by researchers seeking to quantitate apoptosis via caspase activity in cultured cells and tissues. The FLICA reagent SR-LETD-FMK enters each cell and irreversibly binds to activated caspase-8. Because the SR-LETD-FMK FLICA reagent becomes covalently coupled to the active enzymes, it is retained within the cell, while any unbound SR-LETD-FMK FLICA reagent diffuses out of the cell and is washed away. The remaining red fluorescent signal is a direct measure of the active caspase-8 enzyme activity present in the cell at the time the reagent was added. Cells that contain the bound FLICA can be analyzed by a fluorescence plate reader, fluorescence microscopy, or flow cytometry. Cells labeled with the FLICA reagent may be read immediately or preserved for 16 hours using the fixative included in the kit. Unfixed samples may also be analyzed with Hoechst 33342 to detect changes in nuclear morphology.
Product Categories/Family for SR FLICA Caspase 8 assay kit	Apoptosis; Caspase-8; Caspases

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/assay-kits/sr-flica-caspase-8/52737>