

Calcein AM Solution | AM solution

Calcein AM Solution (100 uM)

CATALOG #
AAA178137

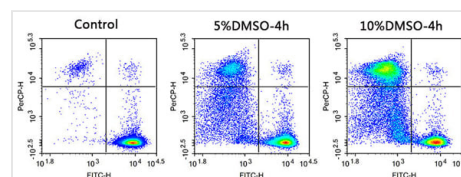
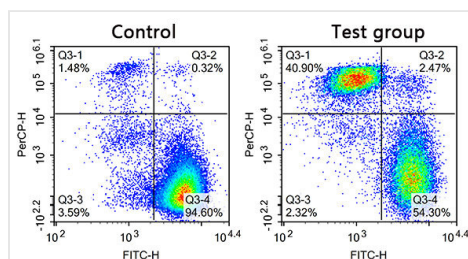
PRODUCT SYNONYMS

Calcein AM; Calcein AM Solution (100 uM); AM solution

PRODUCT SPECIFICATIONS

Samples	Cell samples
Detection Instrument	Flow Cytometry, Fluorescence Microscope
Dye Type	Calcein
Channel Set	FITC
Filter Set	FITC
Detection Principle	Calcein AM Solution (100 uM) can be used to distinguish living cells in mammals with esterase activity. Calcein AM is the addition of acetyl methoxy methyl ester (AM) group to traditional Calcein, which increases hydrophobicity and can easily penetrate the living cell membrane and enter the cell. Calcein AM itself has no fluorescence. After entering the cell, it is hydrolyzed by endogenous esterase in the cell to produce Calcein, a polar molecule with strong negative charge and cannot be retained in the cell through the cell membrane, while Calcein can emit strong green fluorescence (Ex/Em = 494nm/517nm). Due to the lack of esterase, dead cells cannot or rarely produce Calcein, so only living cells are stained with strong green fluorescence, and dead cells cannot be stained or stained very weakly. Compared with other live cell staining probes, Calcein AM is less toxic and does not affect cell differentiation and proliferation.
Preparation and Storage	Store at -20 degree C, shading light Estimated Expiration: 12 months Shipping: Ice bag

IMAGES



Application Data

Molt-4 cells were treated with 5 % DMSO and 10 % DMSO for 4h, then stained with Calcein-AM / PI Double Staining Kit and detected by flow cytometry.

Application Data

Jurkat cells were placed at 4 degree C for 20 days, then stained with Calcein-AM / PI Double Staining Kit and detected by flow cytometry.

ADDITIONAL INFORMATION

Product Categories/Family for AM solution

Cell Apoptosis

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/solution/calcein-am/178137>