Datasheet: 1351201

Description:	CFDA-SE CELL PROLIFERATION ASSAY KIT
Name:	CFDA-SE
Format:	Reagent
Product Type:	Accessory Reagent
Quantity:	500 µg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			1/40 - 1/400

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Product Information

The CFDA-SE (5[6]-carboxyfluorescein diacetate succinimidyl ester) cell proliferation assay is packaged in 100 µg vials. Simply reconstitute it with DMSO for use and avoid weighing and wasting reagents.

CFDA-SE is a cell-permeable reagent that is useful in measuring and tracking cell divisions. Upon entering a live cell, the acetate groups of CFDA-SE are cleaved by intracellular esterase to create the fluorescent carboxyfluorescent carboxyfluorescein succinimidyl ester (CFSE) compound. CFSE reacts with free primary amines to create a stable, covalent bond and is retained in the cytosol of cells. As a cell divides, the fluorescence intensity of CFSE is successively halved with each division, allowing each cell generation to be distinguished.

Reagents In The Kit

Kit includes 5 x 100 µg vials

Instructions For Use

Important: Thaw all components prior to use.

Note: The following protocol is a guideline and it should be modified for each experiment as needed.

1. Prepare a 200 µM stock solution by adding 892.5 µl of DMSO to a CFDA-SE vial and mix by vortexing.

2. Create a working solution (5-0.5 µM) by diluting the CFDA-SE stock solution from step 1 with your buffer of choice at pH 7.

3. Re-suspend 1 x 10^6 cells of interest in 500 µl of the working solution.

4. Incubate the cells for 5-20 min at room temperature. Protect from light.

5. Centrifuge the sample and remove the supernatant.

6. Wash the pellet with 3 ml of your buffer of choice.

7. Re-suspend the cells in 500 µl of fresh, pre-warmed culture media.

8. Remove 200 µl to analyze for time zero.

9. Place the remaining cells in the appropriate conditions for cell proliferation.

10. Harvest the cells and stain them for the other markers if desired.

11. Analyze or sort the cells using a flow cytometer or S3e cell sorter with a 488 nm laser.

Storage	Store at -20°C only This product is photosensitive and should be protected from light
Guarantee	Guaranteed until date of expiry. Please see product label.
Health And Safety Information	Material Safety Datasheet documentation #1351201 available at: https://www.bio-rad-antibodies.com/SDS/1351201 1351201
Regulatory	For research purposes only

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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