

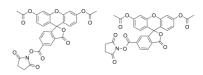


Data Sheet

Product Name: CFSE
Cat. No.: CS-7677
CAS No.: 150347-59-4
Molecular Formula: C29H19NO11

Molecular Weight: 557.46
Target: Others
Pathway: Others

Solubility: DMSO: 62.5 mg/mL (112.12 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

CFSE is a fluorescent dye which can track the cell division. **In Vitro**: CFSE is a fluorescent dye which can track the cell division^[1]. To examine the ability of immune cells to migrate into live slices, a single-cell suspension of autologous splenocytes or PBMC is isolated, labeling them with CFSE, and adding them to the top of the slices on day 2 of culture. After 6 additional days of culture, the CFSE-labeling immune cells (green) are found to have migrated throughout the slices. No positive cells are found in the slices without the addition of CFSE-labeling immune cells^[2].

PROTOCOL (Extracted from published papers and Only for reference)

Cell Assay: [2]Single-cell suspensions of splenocytes (or PBMC) are stained with 1 μ M CFSE in PBS for 9 min at 37°C, combined with 20 mL of 10% FBS RPMI-1640 medium at RT for 2 min, centrifuged, washed, and counted. 2×10^6 CFSE-labeling splenocytes are added to the top of the slices in 24-well membrane culture insert^[2].

References:

[1]. Cinthia C. Stempin, et al. GRAIL and Otubain-1 are Related to T Cell Hyporesponsiveness during Trypanosoma cruzi Infection. PLoS Negl Trop Dis. 2017 Jan; 11(1): e0005307.

[2]. Xiuyun Jiang et al. Long-lived pancreatic ductal adenocarcinoma slice cultures enable precise study of the immune microenvironment. Oncoimmunology. 2017; 6(7): e1333210.

CAIndexNames:

Spiro[isobenzofuran-1(3H),9'-[9H]xanthene]-ar-carboxylic acid, 3',6'-bis(acetyloxy)-3-oxo-, 2,5-dioxo-1-pyrrolidinyl ester

SMILES:

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Caution: Product has not been fully validated for medical applications. For research use only.

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Page 1 of 1 www.ChemScene.com