

Product Data Sheet

Product Name: 5(6)-CFDA

Cat. No.: GC33435

Chemical Properties

Cas. No. 124387-19-5

SMILES CC(OC1=CC=C2C(OC3=C(C=CC(OC(C)=O)=C3)C24C5=CC(C(O)=O)=CC=C5C(O4)=O)=C1)=O.CC(OC6=CC=C7C(OC8=C(C=CC(OC(C)=O)=C8)C79C%10=CC=C(C(O)=O)C=C%10C(O9)=O)=C6)=O

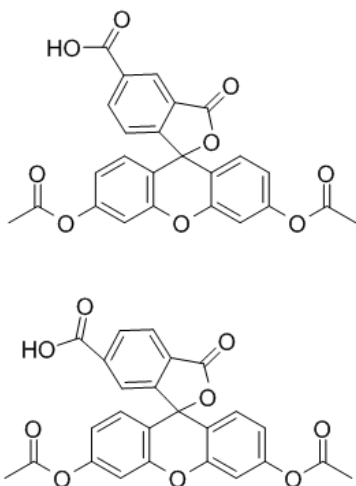
Formula $C_{25}H_{16}O_9$ M.Wt 460.39

Solubility DMSO : ≥ 53 mg/mL (115.12 mM) Storage Store at -20°C , protect from light

General tips For obtaining a higher solubility, please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

5(6)-CFDA is a cell-permeant esterase substrate that can serve as a viability probe that measures both enzymatic activity, which is required to activate its fluorescence, and cell-membrane integrity,

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which is required for intracellular retention of their fluorescent product.

[1]. Yang T, et al. A novel nonradioactive CFDA assay to monitor the cellular immune response in myeloid leukemia. Immunobiology. 2013 Apr;218(4):548-53. [2]. Card SD, et al. Assessment of fluorescein-based fluorescent dyes for tracing Neotyphodium endophytes in planta. Mycologia. 2013 Jan-Feb;105(1):221-9. [3]. Fang X, et al. Bone marrow-derived endothelial progenitor cells are involved in aneurysm repair in rabbits. J Clin Neurosci. 2012 Sep;19(9):1283-6.

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