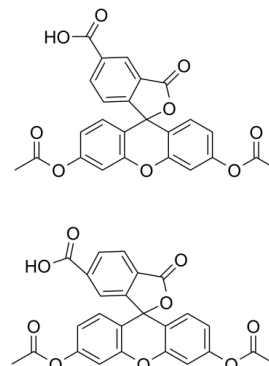


Data Sheet

Product Name:	5(6)-CFDA
Cat. No.:	CS-3854
CAS No.:	124387-19-5
Molecular Formula:	C ₂₅ H ₁₆ O ₉
Molecular Weight:	460.39
Target:	Others
Pathway:	Others
Solubility:	DMSO : ≥ 53 mg/mL (115.12 mM)



BIOLOGICAL ACTIVITY:

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, which is required for intracellular retention of their fluorescent product.

References:

- [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.

CAIndexNames:

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

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

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

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