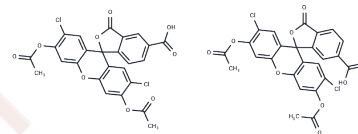


5(6)-Carboxy-2',7'-dichlorofluorescein diacetate

Chemical Properties

CAS No. :	127770-45-0
Formula:	C ₂₅ H ₁₄ Cl ₂ O ₉
Molecular Weight:	529.3
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	5(6)-Carboxy-2',7'-dichlorofluorescein diacetate is an oxidant-sensitive and cell-permeable fluorescent probe. Base hydrolysis of the ester bonds by intracellular esterases releases the acetate groups and the resulting compound, 5(6)-carboxy-2',7'-dichlorofluorescein, is oxidized by reactive oxygen species (ROS) and nitric oxide (NO) and displays excitation/emission maxima of 504 and 530 nm, respectively, which can be quantified as a measure of oxidant production.
Targets(IC50)	Others, Reactive Oxygen Species

Solubility Information

Solubility	DMF: 30 mg/mL (56.68 mM), Sonication is recommended. DMSO: 30 mg/mL (56.68 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8893 mL	9.4464 mL	18.8929 mL
5 mM	0.3779 mL	1.8893 mL	3.7786 mL
10 mM	0.1889 mL	0.9446 mL	1.8893 mL
50 mM	0.0378 mL	0.1889 mL	0.3779 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Hempel, S.L., Buettner, G.R., O'Malley, Y.Q., et al. Dihydrofluorescein diacetate is superior for detecting intracellular oxidants: Comparison with 2',7'-dichlorodihydrofluorescein diacetate, 5-(and 6)-carboxy-2',7'-dichlorodihydrofluorescein diacetate, and dihydrorhodamine 123. *Free Radic. Biol. Med.* 27(1-2):146-159 (1999)

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