Product Data Sheet

Product Name: 6-CFDA (6-Carboxyfluorescein diacetate)
Cat. No.: GC33487

Chemical Properties

Cas. No.	3348-03-6		
SMILES	CC(OC1=CC=C(C2(O3)C4=CC(C(O)=O)=CC=C4C3=O)C(OC5=C2C=CC(OC(C)=O)=C5)=C1)=O		
Formula	$C_{25}H_{16}O_9$	M.Wt	460.39
Solubility	DMSO : ≥ 44 mg/mL (95.57 mM)	Storage	Store at -20°C,protect from light
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ 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

6-CFDA is fluorescent polyanionic probe, and its derivatives such as 2′,7′-bis (2-carboxyethyl)-5(6)-carboxyfluorescein are used to measure changes in intracellular pH (pHi) and processes such as dendrimer aggregation and absorption.

[1]. Babcock DF. Examination of the intracellular ionic environment and of ionophore action by null point measurements employing the fluorescein chromophore. J Biol Chem. 1983 May 25;258(10):6380-9. [2]. Graber ML, et al. Characteristics of fluoroprobes for measuring intracellular pH. Anal Biochem. 1986 Jul;156(1):202-12. [3]. Bonizzoni M, et al. PAMAM dendrimer-induced aggregation of 5(6)-carboxyfluorescein. J Org Chem. 2012 Feb 3;77(3):1258-66.

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