

Product Information

6-CFDA

Catalog Number: C4039

Product Size: 20 mg

Application Scope: Cell viability probe

Parameters

Appearance: Off-white solid soluble in DMSO

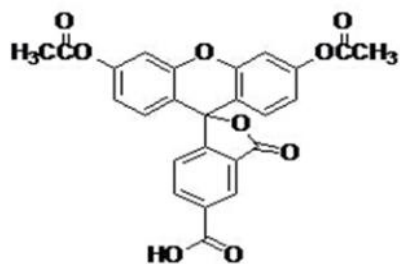
Ex/Em: 492/517 nm (PH=9) (after hydrolysis)

CAS No.: 3348-03-6

Molecular Formula: $C_{25}H_{16}O_9$

Molecular Weight: 460.396

Molecular Structure:



Storage

Store at -20°C and protect from light. When stored as directed, product is stable for at least 12 months.

Description

6-CFDA (full name: 6-Carboxyfluorescein diacetate) is a live cell fluorescent tracer probe with membrane permeability and

thus can be loaded into cells via incubation. Once inside cells, the non-fluorescent CFDA is hydrolyzed by intracellular esterases to carboxyfluorescein. These fluorescent products can only accumulate in cells with integral cell-membrane and be detected by fluorescence microscopy or flow cytometry.

Protocol

A 10 mM stock solution can be configured using anhydrous DMSO and diluted to a working concentration of 1-10 μM with PBS. The specific incubation concentration and incubation time are different depending on the cells. It is recommended to set a set of gradients to explore the best experimental conditions.

6-CFDA is easy to hydrolyze and should be used as soon as possible after configuration.

Notes

1. There are quenching problems with fluorescent dyes. Please avoid light to slow down the fluorescence quenching.
2. For your safety and health, please wear lab coats and disposable gloves.

