

Product Information

Name: 5-CFDA

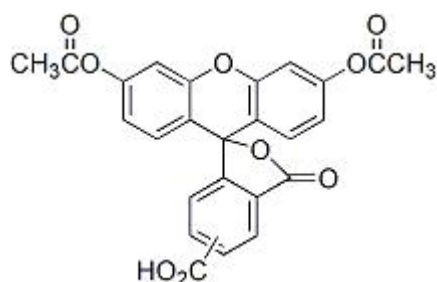
Catalog: C4038

Size: 20 mg

Application: cell viability probe

Parameters

- Off-white solid soluble in DMSO
- $\lambda_{Ex}/\lambda_{Em} = 492/517$ nm (PH=9) (after hydrolysis)
- $C_{25}H_{16}O_9$
- MW: 460.396
- [79955-27-4]
- Structural formula



Storage

Store at -20°C and protect from light, especially in solution

Description

5-CFDA 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 5-CFDA is hydrolyzed by intracellular esterases to 5-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 μ M 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.

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

Notes

1. Please note that the fluorescent dye should be protected from light to prevent fluorescence quenching.
2. For your safety and health, please wear lab coats and gloves.

Related Products

Catalog	Product Name
C4041-1mg	Calcein AM
L4042-10mg	Lucifer Yellow Cadaverine
C4070-5mg	5(6)-CFDA, SE
C4038-20mg	5-CFDA
C4039-20mg	6-CFDA
C4037-50mg	5(6)-CFDA
C4069-5mg	6-CDCFDA SE

