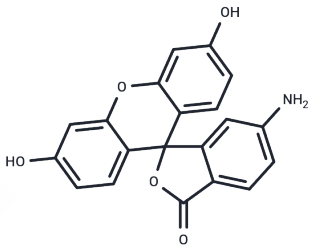
Data Sheet (Cat.No.T18900)

TargetMol

6-Aminofluorescein

Chemical Properties



CAS No. : 51649-83-3

Formula: C20H13NO5

Molecular Weight: 347.32

Appearance: no data available

Storage: keep away from direct sunlight
Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	6-Aminofluorescein (6-AF) (6-AF) is a noval fluorescence marker.
Targets(IC50)	Others
In vitro	Instructions 1. Preparation of reaction system: 1) 6-AF solution: Prepare 6-AF stock solution using appropriate solvent (e.g. DMSO or PBS), usually at a concentration of 1-10 mM. 2) Prepare target molecules (e.g. enzymes or metabolites) in buffer. 3) Add 6-AF as a fluorescent probe, usually at a concentration of 1-100 μM. 2. Detection process: Record fluorescence signal using a fluorometer or microplate reader (excitation wavelength 495 nm, emission wavelength 515 nm). 3. Data analysis: Compare the fluorescence intensity of the experimental group and the control group to evaluate the dynamic changes of the target molecule or reaction.

Solubility Information

Solubility	DMSO: 90 mg/mL (259.13 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8792 mL	14.3959 mL	28.7919 mL
5 mM	0.5758 mL	2.8792 mL	5.7584 mL
10 mM	0.2879 mL	1.4396 mL	2.8792 mL
50 mM	0.0576 mL	0.2879 mL	0.5758 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.

Reference

Bharate GY, Qin H, Fang J. Poly(Styrene-Co-Maleic Acid)-Conjugated 6-Aminofluorescein and Rhodamine Micelle as Macromolecular Fluorescent Probes for Micro-Tumors Detection and Imaging. J Pers Med. 2022 Oct 4;12(10): 1650.

Basak S,et al. Nanoconfined anti-oxidizing RAFT nitroxide radical polymer for reduction of low-density lipoprotein oxidation and foam cell formation. Nanoscale Adv. 2022 Jan 4;4(3):742-753.

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