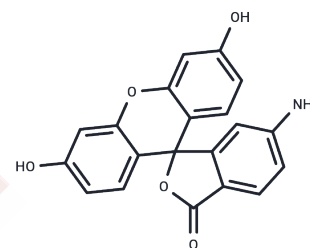


6-Aminofluorescein

Chemical Properties

CAS No. :	51649-83-3
Formula:	C ₂₀ H ₁₃ NO ₅
Molecular Weight:	347.32
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	6-Aminofluorescein (6-AF) (6-AF) is a novel fluorescence marker.
Targets(IC50)	Others
In vitro	<p>Instructions</p> <ol style="list-style-type: none"> Preparation of reaction system: <ol style="list-style-type: none"> 6-AF solution: Prepare 6-AF stock solution using appropriate solvent (e.g. DMSO or PBS), usually at a concentration of 1-10 mM. Prepare target molecules (e.g. enzymes or metabolites) in buffer. Add 6-AF as a fluorescent probe, usually at a concentration of 1-100 μM. Detection process: Record fluorescence signal using a fluorometer or microplate reader (excitation wavelength 495 nm, emission wavelength 515 nm). 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. <p>The above information is based on published literature. Experimental procedures should be appropriately modified to meet specific research demands.</p>

Solubility Information

Solubility	DMSO: 90 mg/mL (259.13 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 3.3 mg/mL (9.5 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

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.

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

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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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481