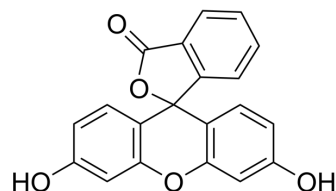


Fluorescein

Cat. No.:	HY-D0251
CAS No.:	2321-07-5
Molecular Formula:	C ₂₀ H ₁₂ O ₅
Molecular Weight:	332.31
Target:	Fluorescent Dye
Pathway:	Others
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 83.33 mg/mL (250.76 mM; Need ultrasonic)					
	H ₂ O : < 0.1 mg/mL (insoluble)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		3.0092 mL	15.0462 mL	30.0924 mL
5 mM			0.6018 mL	3.0092 mL	6.0185 mL	
10 mM		0.3009 mL	1.5046 mL	3.0092 mL		
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (6.26 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (6.26 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Fluorescein (Uranine) is widely used as a fluorescent tracer in medicinal and biological applications and tumor infected tissues tracer. Fluorescein (Uranine) is a representative green fluorophore that has been widely used as a scaffold of practically useful green fluorescent probes ^{[1][2]} .
In Vitro	Fluorescein is a synthetic organic photoactive dye compound soluble in water, alcohol and polar solvents ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Sci Bull. 2023 Dec 26.
- Cell Death Dis. 2023 Feb 7;14(2):91.

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REFERENCES

- [1]. RobertSjöback, et al. Absorption and fluorescence properties of fluorescein. Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy
- [2]. Nabel A Negm, et al. Fluorescein dye derivatives and their nanohybrids: Synthesis, characterization and antimicrobial activity. J Photochem Photobiol B. 2016 Sep;162:421-433.
- [3]. Li Liu, et al. Fluorescein as an artificial enzyme to mimic peroxidase. Chem Commun (Camb). 2016 Nov24;52(96):13912-13915.
- [4]. Hirabayashi K, et al. Analysis of chemical equilibrium of silicon-substituted fluorescein and its application to develop a scaffold for red fluorescent probes. Anal Chem. 2015;87(17):9061-9069.
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Caution: Product has not been fully validated for medical applications. For research use only.

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