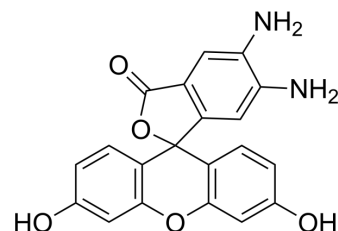


## 4,5-Diaminofluorescein

Cat. No.:	HY-D0076
CAS No.:	205391-01-1
Molecular Formula:	C <sub>20</sub> H <sub>14</sub> N <sub>2</sub> O <sub>5</sub>
Molecular Weight:	362.34
Target:	Fluorescent Dye
Pathway:	Others
Storage:	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 25 mg/mL (69.00 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	2.7598 mL	13.7992 mL	27.5984 mL
		5 mM	0.5520 mL	2.7598 mL	5.5197 mL
	10 mM	0.2760 mL	1.3799 mL	2.7598 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: ≥ 1.25 mg/mL (3.45 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1.25 mg/mL (3.45 mM); Clear solution				

### BIOLOGICAL ACTIVITY

Description	4,5-Diaminofluorescein is a fluorescent detector for nitric oxide (NO) in cells and tissues <sup>[1]</sup> .
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### REFERENCES

[1]. Jourd'heuil D. Increased nitric oxide-dependent nitrosylation of 4,5-diaminofluorescein by oxidants: implications for the measurement of intracellular nitric oxide. Free Radic Biol Med. 2002 Sep 1;33(5):676-84.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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