## 5(6)-Carboxyfluorescein

Cat. No.:	HY-15940
CAS No.:	72088-94-9
Molecular Formula:	C <sub>42</sub> H <sub>24</sub> O <sub>14</sub>
Molecular Weight:	752.63
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

		Solvent Mass Concentration	1 mg	5 mg	10 mg	
	Preparing Stock Solutions	1 mM	1.3287 mL	6.6434 mL	13.2867 mL	
		5 mM	0.2657 mL	1.3287 mL	2.6573 mL	
		10 mM	0.1329 mL	0.6643 mL	1.3287 mL	
	Please refer to the solubility information to select the appropriate solvent.					

BIOLOGICAL ACTIVITY				
Description	5(6)-Carboxyfluorescein (5(6)-FAM) is an amine-reactive pH-sensitive green fluorescent probe. 5(6)-Carboxyfluorescein (5(6)-FAM) can be used to label proteins, peptides and nucleotides. 5(6)-Carboxyfluorescein can be used for the detection of tumour areas in vivo <sup>[1][2]</sup> .			
In Vitro	5(6)-Carboxyfluorescein has two main characteristics: it has two wavelengths of maximum absorbance (465 and 490 nm) and its fluorescence emission (maximum, 515 nm) increases as a function of pH in the physiological pH range of 6-7.4 <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			
In Vivo	5(6)-Carboxyfluorescein (5 mg/kg; i.p.) can be used for in vivo pH mapping of tumor tissue <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			
	Animal Model: CDF mice, bearing lymphoid leukemia P388 <sup>[2]</sup>			



HO CONTRACTOR

**Product** Data Sheet

	1
Dosage:	5 mg/kg
Administration:	Injected intraperitoneally
Result:	Could be used for measurement and imaging of tumor tissue.

## **CUSTOMER VALIDATION**

- Nat Commun. 2023 Jul 17;14(1):4261.
- Hypertension. 2019 May;73(5):e25-e34.

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## REFERENCES

[1]. Wen Ma, et al. A Cell Membrane-Targeting Self-Delivery Chimeric Peptide for Enhanced Photodynamic Therapy and In Situ Therapeutic Feedback. Adv Healthc Mater. 2020 Jan;9(1):e1901100.

[2]. Maksim V Kvach, et al. 5(6)-carboxyfluorescein revisited: new protecting group, separation of isomers, and their spectral properties on oligonucleotides. Bioconjug Chem. Sep-Oct 2007;18(5):1691-6.

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