

5(6)-Carboxynaphthofluorescein

Chemical Properties

CAS No. : 128724-35-6
Formula: C₃₀H₂₀O₇
Molecular Weight: 476.44
Appearance:
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	5(6)-Carboxynaphthofluorescein, a pH-dependent fluorophore, exhibits high sensitivity in alkaline pH settings, making it suitable for the development of fiber-optic pH sensors. Additionally, it serves as a fluorescent pH indicator with excitation/emission wavelengths of 593/668 nm [1].
In vitro	5(6)-Carboxynaphthofluorescein serves as a fluorescent pH indicator, effective within the pH range of 6.6 to 8.6 with a pKa value of 7.6 [1]. It exhibits fluorescence properties with an excitation wavelength of 593 nm and an emission spectrum of 668 nm [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0989 mL	10.4945 mL	20.989 mL
5 mM	0.4198 mL	2.0989 mL	4.1978 mL
10 mM	0.2099 mL	1.0495 mL	2.0989 mL
50 mM	0.042 mL	0.2099 mL	0.4198 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.

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