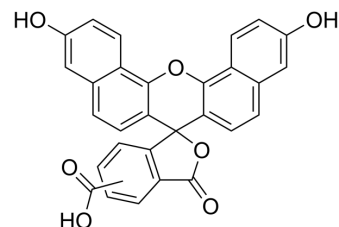


5(6)-Carboxynaphthofluorescein

Cat. No.:	HY-D1677
CAS No.:	128724-35-6
Molecular Formula:	C ₃₀ H ₂₀ O ₇
Molecular Weight:	476.44
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 : 125 mg/mL (262.36 mM; Need ultrasonic)

Concentration	Mass			
	1 mg	5 mg	10 mg	
1 mM	2.0989 mL	10.4945 mL	20.9890 mL	
5 mM	0.4198 mL	2.0989 mL	4.1978 mL	
10 mM	0.2099 mL	1.0495 mL	2.0989 mL	

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

5(6)-Carboxynaphthofluorescein is a pH-dependent fluorophore. 5(6)-Carboxynaphthofluorescein shows good sensitivity in an alkaline pH range and it can be exploited in the construction of fiber-optic pH sensors. 5(6)-Carboxynaphthofluorescein can be used as a fluorescent pH indicator (Ex/Em=593/668 nm)^[1].

In Vitro

5(6)-Carboxynaphthofluorescein can be used as a fluorescent pH indicator, it is sensitive in the pH range from 6.6 to 8.6 with a pK_a value of 7.6^[1].
5(6)-Carboxynaphthofluorescein have fluorescence properties, with excitation wavelength=593 nm, emission spectrum=668 nm^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Nevolova S, et al. Development of Fluorescent Assay for Monitoring of Dehalogenase Activity. Biotechnol J. 2019 Mar;14(3):e1800144.

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

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