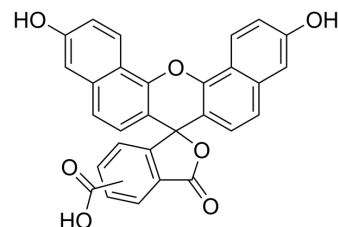


## 5(6)-Carboxynaphthofluorescein

<b>Cat. No.:</b>	HY-D1677
<b>CAS No.:</b>	128724-35-6
<b>Molecular Formula:</b>	C <sub>30</sub> H <sub>20</sub> O <sub>7</sub>
<b>Molecular Weight:</b>	476.44
<b>Target:</b>	Fluorescent Dye
<b>Pathway:</b>	Others
<b>Storage:</b>	-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)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	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)<sup>[1]</sup>.

#### 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<sub>a</sub> value of 7.6<sup>[1]</sup>.  
5(6)-Carboxynaphthofluorescein have fluorescence properties, with excitation wavelength=593 nm, emission spectrum=668 nm<sup>[1]</sup>.  
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.

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

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