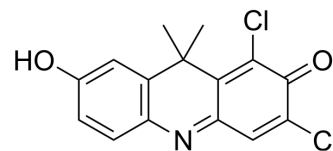


## DDAO

Cat. No.:	HY-114879
CAS No.:	118290-05-4
Molecular Formula:	C <sub>15</sub> H <sub>11</sub> Cl <sub>2</sub> NO <sub>2</sub>
Molecular Weight:	308.16
Target:	Fluorescent Dye; Carboxylesterase
Pathway:	Others; Metabolic Enzyme/Protease
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 10.42 mg/mL (33.81 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	3.2451 mL	16.2253 mL	32.4507 mL
		5 mM	0.6490 mL	3.2451 mL	6.4901 mL
	10 mM	0.3245 mL	1.6225 mL	3.2451 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: 1.04 mg/mL (3.37 mM); Suspended solution; Need ultrasonic  2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 1.04 mg/mL (3.37 mM); Suspended solution; Need ultrasonic				

### BIOLOGICAL ACTIVITY

Description	DDAO is a promising near-infrared (NIR) red fluorescent probe with tunable excitation wavelength (600-650nm) and long emission wavelength (λ <sub>em</sub> =656nm). DDAO can be designed for detection of the activities of different enzymes such as β-galactosidase, sulfatase, protein phosphatase 2A, carboxylesterase 2, human albumin and esterases <sup>[1]</sup> .
IC <sub>50</sub> & Target	Red fluorescent probe

### CUSTOMER VALIDATION

- Acta Pharm Sin B. 2023 Sep 1.

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See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## REFERENCES

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[1]. Hou J1, et al. A near-infrared ratiometric/turn-on fluorescent probe for in vivo imaging of hydrogen peroxide in a murine model of acute inflammation. *Anal Chim Acta*. 2018 Sep 18;1024:169-176.

[2]. Hou J, et al. A near-infrared ratiometric/turn-on fluorescent probe for in vivo imaging of hydrogen peroxide in a murine model of acute inflammation. *Anal Chim Acta*. 2018 Sep 18;1024:169-176.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA