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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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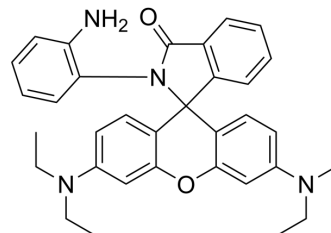
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RB-OPD

Cat. No.:	HY-D1266
CAS No.:	1034863-51-8
Molecular Formula:	C ₃₄ H ₃₆ N ₄ O ₂
Molecular Weight:	532.68
Target:	Fluorescent Dye
Pathway:	Others
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 25 mg/mL (46.93 mM); ultrasonic and warming and heat to 60°C				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	1.8773 mL	9.3865 mL	18.7730 mL
		5 mM	0.3755 mL	1.8773 mL	3.7546 mL
	10 mM	0.1877 mL	0.9386 mL	1.8773 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: 2.5 mg/mL (4.69 mM); Suspended solution; Need ultrasonic				

BIOLOGICAL ACTIVITY

Description	RB-OPD (NO-red) is a o-phenylenediamine (OPD)-locked rhodamine nitric oxide (NO) fluorescent probe with great sensitivity and selectivity ($\lambda_{ex}=550$ nm, $\lambda_{em}=590$ nm) ^[1] .
In Vitro	RB-OPD (compound 1) exhibits “turn-on” type fluorogenic and chromogenic behavior toward NO in aqueous solution with great sensitivity and selectivity, and it can be used for the sensing of NO under normal physiological conditions. NO-red is composed of two moieties: rhodamine B spirolactam as the potential strong fluorophore and chromophore, and o-phenylenediamine as an NO-reactive group in a lactam form as a “masked” NO-sensitive modulator ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Hong Zheng, et al. Fluorogenic and chromogenic rhodamine spirolactam based probe for nitric oxide by spiro ring opening reaction. Org Lett. 2008 Jun 19;10(12):2357-

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

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