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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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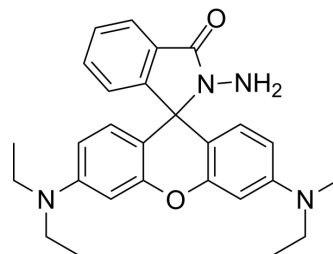
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Rhodamine B hydrazide

Cat. No.:	HY-123645
CAS No.:	74317-53-6
Molecular Formula:	C ₂₈ H ₃₂ N ₄ O ₂
Molecular Weight:	456.58
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 : 100 mg/mL (219.02 mM; Need ultrasonic)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		2.1902 mL	10.9510 mL	21.9020 mL
	5 mM		0.4380 mL	2.1902 mL	4.3804 mL
	10 mM		0.2190 mL	1.0951 mL	2.1902 mL

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

BIOLOGICAL ACTIVITY

Description

Rhodamine B hydrazide is a good probe for sulfite, with colorless and non-fluorescent properties. While the emission is related to the concentration of sulfite (5-800 ng/mL; detection limit=1.4 ng/mL (3σ)). Sulfite reduces dissolved oxygen to yield superoxide radicals, which binds to Rhodamine B hydrazide to form Rhodamine B. Rhodamine B hydrazide gives Rhodamine B-like fluorescence in the presence of sulfite, which is enhanced by Tween 80 surfactant micelles. Rhodamine B hydrazide has an absorption maximum at 554 nm and a fluorescence emission maximum at 574 nm^[1].

REFERENCES

[1]. Yang X F, et al. Novel spectrofluorimetric method for the determination of sulfite with rhodamine B hydrazide in a micellar medium[J]. Analytica Chimica Acta, 2002, 456(1): 121-128.

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

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