



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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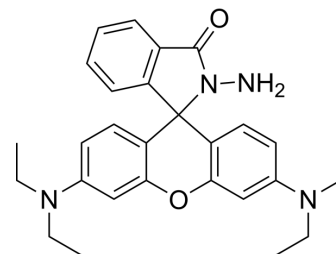
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## Rhodamine B hydrazide

|                    |   |
|--------------------|---|
| Cat. No.:          | HY-123645   |
| CAS No.:           | 74317-53-6  |
| Molecular Formula: | C <sub>28</sub> H <sub>32</sub> N <sub>4</sub> O <sub>2</sub>                             |
| Molecular Weight:  | 456.58  |
| Target:            | Fluorescent Dye   |
| Pathway:           | Others  |
| Storage:           | Please store the product under the recommended conditions in the Certificate of Analysis. |



### 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 (3 $\sigma$ )). 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<sup>[1]</sup>.

### 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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