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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

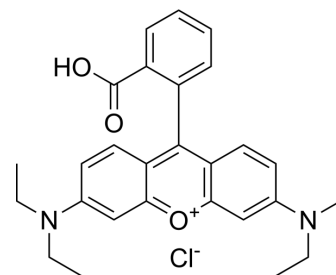
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Rhodamine B

| | |
|---------------------------|--|
| Cat. No.: | HY-Y0016 |
| CAS No.: | 81-88-9 |
| Molecular Formula: | C ₂₈ H ₃₁ ClN ₂ O ₃ |
| Molecular Weight: | 479.01 |
| Target: | Fluorescent Dye |
| Pathway: | Others |
| Storage: | 4°C, sealed storage, away from moisture and light * In solvent : -80°C, 2 years; -20°C, 1 year (sealed storage, away from moisture and light) |



SOLVENT & SOLUBILITY

| In Vitro | DMSO : 125 mg/mL (260.95 mM; Need ultrasonic) | | | | | | | | | | | | | | | | | | | | | |
|---|--|-----------|------------|---------------|---------------|--|------|------|-------|---------------------------|------|-----------|------------|------------|------|-----------|-----------|-----------|-------|-----------|-----------|-----------|
| | H ₂ O : 100 mg/mL (208.76 mM; Need ultrasonic) | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th rowspan="2">Solvent</th> <th rowspan="2">Mass</th> <th colspan="3">Concentration</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Preparing Stock Solutions</td> <td>1 mM</td> <td>2.0876 mL</td> <td>10.4382 mL</td> <td>20.8764 mL</td> </tr> <tr> <td>5 mM</td> <td>0.4175 mL</td> <td>2.0876 mL</td> <td>4.1753 mL</td> </tr> <tr> <td>10 mM</td> <td>0.2088 mL</td> <td>1.0438 mL</td> <td>2.0876 mL</td> </tr> </tbody> </table> | Solvent | Mass | Concentration | | | 1 mg | 5 mg | 10 mg | Preparing Stock Solutions | 1 mM | 2.0876 mL | 10.4382 mL | 20.8764 mL | 5 mM | 0.4175 mL | 2.0876 mL | 4.1753 mL | 10 mM | 0.2088 mL | 1.0438 mL | 2.0876 mL |
| | Solvent | | | Mass | Concentration | | | | | | | | | | | | | | | | | |
| 1 mg | | 5 mg | 10 mg | | | | | | | | | | | | | | | | | | | |
| Preparing Stock Solutions | 1 mM | 2.0876 mL | 10.4382 mL | 20.8764 mL | | | | | | | | | | | | | | | | | | |
| | 5 mM | 0.4175 mL | 2.0876 mL | 4.1753 mL | | | | | | | | | | | | | | | | | | |
| | 10 mM | 0.2088 mL | 1.0438 mL | 2.0876 mL | | | | | | | | | | | | | | | | | | |
| Please refer to the solubility information to select the appropriate solvent. | | | | | | | | | | | | | | | | | | | | | | |
| In Vivo | <ol style="list-style-type: none"> Add each solvent one by one: PBS Solubility: 5 mg/mL (10.44 mM); Clear solution; Need ultrasonic and warming and heat to 60°C Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (4.34 mM); Clear solution | | | | | | | | | | | | | | | | | | | | | |

BIOLOGICAL ACTIVITY

| | |
|--------------------|---|
| Description | Rhodamine B is a staining fluorescent dye, commonly used for dyeing textiles, paper, soap, leather, and agents. |
| In Vitro | <p>Rhodamine B induces a concentration-dependent reduction of root meristem cells of <i>A. cepa</i>. mitotic activity. Rhodamine B induces various nuclear aberrations in <i>A. cepa</i>. root cells. In the 100 and 200 ppm rhodamine B groups, the frequencies of NBUDs and BN surpass those of the positive control (MMS) group. Rhodamine B-induced changes of H₂O₂ (a) and MDA (b) level increase in a concentration-dependent manner in <i>A. cepa</i>. roots^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> |

CUSTOMER VALIDATION

- Chem Eng J. 2020, 127870.
- EMBO J. 2020 Sep 15;39(18):e104365.
- Biomed J. 2023 Mar 31;S2319-4170(23)00029-X.
- ACS Omega. 2022.
- Biomed Res Int. 2022.

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REFERENCES

[1]. Tan D, et al. Rhodamine B induces long nucleoplasmic bridges and other nuclear anomalies in *Allium cepa* root tip cells. *Environ Sci Pollut Res Int.* 2014 Mar;21(5):3363-70.

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

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