



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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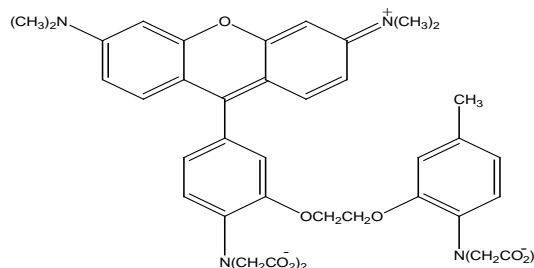
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## PRODUCT AND SAFETY DATA SHEET

**PRODUCT NAME:** Rhod-2, tripotassium salt**CATALOG NO.** 50021**MOLECULAR INFORMATION:** C<sub>40</sub>H<sub>39</sub>K<sub>3</sub>N<sub>4</sub>O<sub>11</sub>  
Mwt: 869**PROPERTIES:**

**Color & Form** Orange red  
**Purity** ≥ 90% by HPLC  
**Solubility** Soluble in DMSO & water (pH >6)  
**Absorption/Emission** 552nm/576nm (low or high [Ca<sup>2+</sup>])  
**Extinction Coefficient** 96,000 M<sup>-1</sup>cm<sup>-1</sup> (552 nm)

**STORAGE AND HANDLING:**

Stored desiccated at 4 °C upon receipt. Protect from light, especially when in solution.

**APPLICATION:**

Rhod-2 is similar to fluo-3 in that the excitation and emission spectra do not undergo a shift and the sensor is essentially nonfluorescent before Ca<sup>2+</sup> binding but becomes more fluorescent with increasing Ca<sup>2+</sup> concentration. The absorption (552 nm) and emission (576 nm) maxima of rhod-2, however, are longer than those of fluo-3. The longer absorption and emission wavelengths of rhod-2 may make it useful for some applications where autofluorescence is a problem, or where another fluorescent dye of shorter wavelengths is used at the same time. The fluorescent enhancement for rhod-2 from low [Ca<sup>2+</sup>] to high [Ca<sup>2+</sup>] was smaller than that for fluo-3, and also in general rhod-2 is somewhat less fluorescent than fluo-3.

Rhod-2 salt forms are membrane-impermeant but can be loaded into cells via microinjection or scrape loading.

Biotium offers A-23187(**59001**), an ionophore that is commonly used for intracellular calibration of calcium indicators. Biotium also offers EDC (**59002**, also known as EDAC), which can be used to fix calcium indicators in cells, if post histochemical studies are desired following physiological experiments.

Ref: 1) Vergara, J., et al. *Biophys. J.* **59**, 12(1991); 2) Parker, I., et al. *Science* **250**, 977(1990); 3) Minta, A., et al. *J. Biol. Chem.* **264**, 8171(1989)

**TOXICITY:** Unknown

**FIRST AID:** Potentially harmful. Avoid prolonged or repeated exposure. Avoid getting in eyes, on skin, or on clothing. Wash thoroughly after handling. If eye or skin contact occurs, wash affected areas with plenty of water for 15 minutes and seek medical advice. In case of inhaling or swallowing, move individual to fresh air and seek medical advice immediately.

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