



# 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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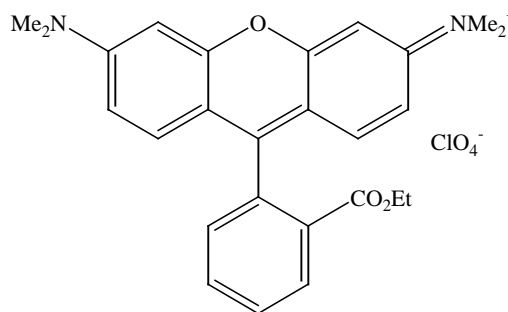
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## PRODUCT AND SAFETY DATA SHEET

**PRODUCT NAME:** Tetramethylrhodamine ethyl ester, perchlorate (TMRE)**CATALOG NUMBER:** 70016**MOLECULAR INFORMATION:** C<sub>26</sub>H<sub>27</sub>ClN<sub>2</sub>O<sub>7</sub>  
Mwt: 515**PROPERTIES:**

<b>Color &amp; Form</b>	Red solid.
<b>Purity</b>	≥ 95% by HPLC
<b>Solubility</b>	Soluble in DMSO, EtOH
$\lambda_{ex}/\lambda_{em}$	549/574nm
<b>Extinction Coefficient (<math>\epsilon</math>)</b>	108,000 M <sup>-1</sup> cm <sup>-1</sup> (549 nm; in MeOH)

**STORAGE AND HANDLING:**

Store desiccated at 4 °C and protect from light, especially in solution.

**APPLICATION:**

TMRM (70017) and TMRE (70016) are said to be the preferred dyes for quantitative measurements of membrane potentials using Nernst equation. The dyes do not form aggregates in cell membranes and interact with membrane proteins minimally. Thus, the transmembrane distribution of the dyes is directly related to the membrane potential via Nernst equation.

Ref.: 1) *Meth. Cell Biol.* **38**, 195(1993); 2) *Meth. Cell Biol.* **30**, 193(1989); 3) *Biophys. J.* **56**, 1053(1989); 4) *Biophys. J.* **53**, 785(1988).

**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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