



# SZABO SCANDIC

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## 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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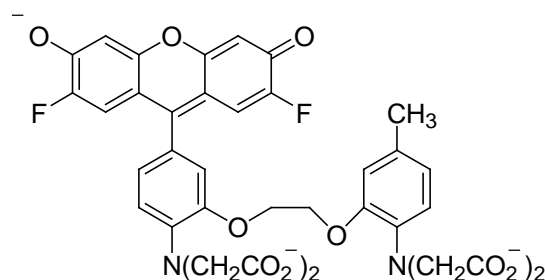
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## PRODUCT AND SAFETY DATA SHEET

**PRODUCT NAME:** Fluo-4, pentapotassium salt**CATALOG #:** 50019**MOLECULAR INFORMATION:** C<sub>36</sub>H<sub>25</sub>F<sub>2</sub>K<sub>5</sub>N<sub>2</sub>O<sub>13</sub>  
MWt: 927.09**PROPERTIES:**

<b>Color &amp; Form</b>	Orange solid
<b>Purity</b>	≥ 95% by HPLC
<b>Solubility</b>	Soluble in water or DMSO
<b>Absorption/Emission</b>	494nm/516nm (low or high [Ca <sup>2+</sup> ])
<b>Extinction Coefficient</b>	82,000 M <sup>-1</sup> cm <sup>-1</sup> (494 nm)
<b>Kd for Ca<sup>2+</sup></b>	~335 nM

**STORAGE AND HANDLING:**

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

**APPLICATION:**

Fluo-4 has its absorption maximum at 494 nm, thus making it excitable by the argon-ion laser. Fluo-4 is essentially nonfluorescent without Ca<sup>2+</sup> present, but the fluorescence increases at least 100 times on Ca<sup>2+</sup> binding. Also, because fluo-4 binds Ca<sup>2+</sup> more weakly (higher K<sub>d</sub>) than do fura-2 and indo-1, it is more useful for measuring high transient Ca<sup>2+</sup> concentration during Ca<sup>2+</sup> spikes.

Fluo-4 pentapotassium salt is membrane-impermeant but can be loaded into cells via microinjection or scrape loading.

Ref: 1) Gee, K.R., et al. *Cell Calcium*. 27, 97(2000).

**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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