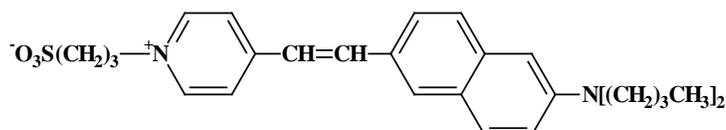


## PRODUCT AND SAFETY DATA SHEET

**PRODUCT NAME:** di-4-ANEPPS**CATALOGUE #:** 61010**MOLECULAR INFORMATION:** C<sub>28</sub>H<sub>36</sub>N<sub>2</sub>O<sub>3</sub>S.  
Mwt: 481.**PROPERTIES:**

<b>Color &amp; Form</b>	Orange red solid.
<b>Purity</b>	99% by HPLC
<b>Solubility</b>	Soluble in DMSO, ethanol and DMF
<b>Absorption/Emission</b>	496 nm / 705 nm (MeOH)
<b>Extinction Coefficient</b>	39,000 (MeOH)

**STORAGE AND HANDLING:** Store desiccated at ≤ 4°C and protect from light especially in solution.**APPLICATION:** Di-4-ANEPPS is a fast-responding membrane potential dye. It responds to alterations in membrane potential with opposite changes in fluorescence excitation intensity at 440 and 505 nm. The changes can be correlated by ratiometric methods to the changes in the membrane potential of the cell.

It is developed by Loew for spatially resolved optical imaging of membrane potential. It has been used to image spiral waves of membrane potential in canine epicardial muscle, and to measure membrane potentials of nonexcitable cells.

Ref: Davidenko, J.M., et al. *Nature* **355**, 349(1992); Fromberz, P., et al. *Biochim. Biophys. Acta* **1068**, 149(1991).

**TOXICITY:** Unknown.

<b>FIRST AID:</b>	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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