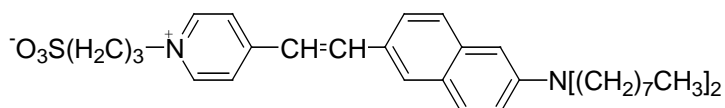


## PRODUCT AND SAFETY DATA SHEET

**PRODUCT NAME:** di-8-ANEPPS**CATALOGUE #:** 61012**MOLECULAR INFORMATION:** C<sub>36</sub>H<sub>52</sub>N<sub>2</sub>O<sub>3</sub>S.  
Mwt: 593  
[157134-53-7]**PROPERTIES:**

|                               |                         |
|-------------------------------|-------------------------|
| <b>Color &amp; Form</b>       | Orange red solid.       |
| <b>Purity</b>                 | 99% by HPLC             |
| <b>Solubility</b>             | Soluble in DMSO or EtOH |
| <b>Absorption/Emission</b>    | 498 nm / 713 nm (MeOH)  |
| <b>Extinction Coefficient</b> | 44,000                  |

**STORAGE AND HANDLING:**

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

**APPLICATION:**

ANEPPS dyes are fast responding membrane potential dyes.<sup>1</sup> Biotium offers both Di-4-ANEPPS and Di-8-ANEPPS. Di-4-ANEPPS has the problem of being internalized in cells over long-term, so it is mainly used for short-term experiments. However, because Di-8-ANEPPS is more lipophilic, the dye is better retained in the outer leaflet of cell plasma membranes and thus more suitable for long-term membrane potential studies. Di-8-ANEPPS is also more photostable and less phototoxic than Di-4-ANEPPS.<sup>2,3</sup>

Ref: 1) *J. Neurosci.* **15**, 1392(1995); 2) *Neuron* **13**, 1187(1994); 3) *Neuron*, **9**, 393(1992).**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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