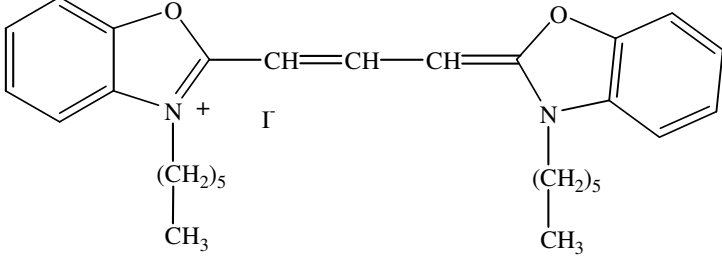


3,3'-dihexyloxacarboyanine, iodide

Instruction Manual

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|---------------------------------------|---|
| Catalog Number | PK-CA707-70009 |
| Description | DiOC ₆ (3) is a green fluorescent membrane dye that has been used to stain the ER in both live and fixed cells. The dye has also been used to study structural interactions and dynamics of the ER in neurons and yeast. In addition, the dye is widely used as a membrane potential dye. |
| Quantity | 100 mg |
| Excitation / Emission Maxima | $\lambda_{ex}/\lambda_{em}$ (in MeOH) = 484/501 nm Extinction coefficient = 150,000 (in MeOH) |
| Molecular Structure |  |
| Molecular Weight / Molecular Formula | 527.53 Da; C ₂₉ H ₃₇ IN ₂ O ₂ |
| Purity | >98% (as determined by TLC) |
| Appearance / Formulation / Solubility | Orange solid; soluble in DMSO or DMF. |
| Storage & Stability | Store at 4°C and protect from light, especially when in solution. |
| Applications | See Description |
| References | <ol style="list-style-type: none"> 1) J. Cell Biol. 103, 1557(1986) 2) Cell 38, 101(1984) 3) J. Cell Biol. 127, 1021(1994); 6050(1980) 4) Nature, 310, 53(1984) 5) Cell Motil. Cytoskeleton, 25, 111(1993) |
| Caution | 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. |

FOR IN VITRO RESEARCH USE ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC PROCEDURES.