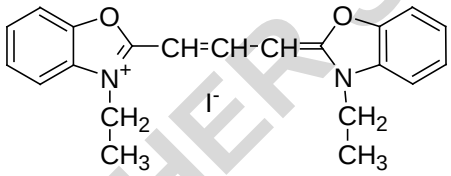
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PRODUCT AND SAFETY DATA SHEET

PRODUCT NAME: **$DiOC_2(3)$, Iodide (**3,3′-Diethyloxacarbocyanine, iodide)

CATALOG #: **70008**

MOLECULAR INFORMATION: $C_{21}H_{21}IN_2O_2$
Mwt: 460.31



PROPERTIES:

Color & Form	Orange solid
Purity	≥ 98% TLC
Solubility	Soluble in DMF orDMSO
Absorption\Emission	482/497 nm (in MeOH)
Extinction Coefficient	150,000 cm^{-1} M^{-1} (in MeOH)

STORAGE AND HANDLING: Store at 4 °C and protect from light, especially when in solution.

APPLICATION: $DiOC_2(3)$ has been used for measuring membrane potentials in bacteria. The green fluorescent dye forms red fluorescent aggregates with increasing membrane potential. The spectral shifting phenomenon has been exploited to measure membrane potential ratiometrically.

Ref: 1) *Biophysics J.* **56**, 979(1989).

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.

Disclaimer: *Materials from Biotium are sold for research use only, and are not intended for food, drug, household, or cosmetic use. Biotium is not liable for any damage resulting from handling or contact with this product.*

DOMINIQUE DUTSCHER SAS