

DiOC6(3)

Cat #:BMD00081

Lot #: Refer to product label

DiOC6(3)) is a lipophilic fluorescent dye with excitation/emission spectra of 484/501 nm, respectively.

Product Information

Product name DiOC6(3)

Specification

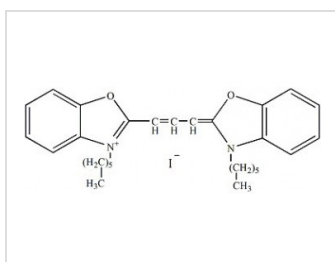


Fig. DiOC6(3) structure formula

Product Properties

Storage instructions

Store at +4°C. The product can be stored for up to 12 months. Protect from light.

Shipping

Gel pack with blue ice.

Precautions

The product listed herein is for research use only and is not intended for use in human or clinical diagnosis. Suggested applications of our products are not recommendations to use our products in violation of any patent or as a license. We cannot be responsible for patent infringements or other violations that may occur with the use of this product.

Additional Information

Background

3,3'-Dihexyloxycarbocyanine (DiOC6(3)) is a lipophilic fluorescent dye with excitation/emission spectra of 484/501 nm, respectively. At high concentrations, DiOC6(3) accumulates in the endoplasmic reticulum (ER) and has been used to visualize ER in moss, yeast, and muscle cells. At low concentrations, DiOC6(3) accumulates in mitochondria and has been used to assess mitochondrial dislocations, fusion, and fission in living cells, as well as to visualize cellular apoptosis. DiOC6(3) can also be used to assess cell membrane potential, as depolarization directly correlates with increased fluorescence. DiOC6(3) photoexcitation inactivates intracellular organelle movement and inhibits microtubule polymerization in vitro.

Alternative names

3,3'-Dihexyloxycarbocyanine

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