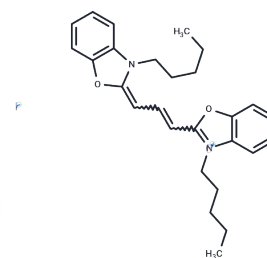


DiOC5(3)

Chemical Properties

CAS No. :	53213-81-3
Formula:	C ₂₇ H ₃₃ IN ₂ O ₂
Molecular Weight:	544.47
Storage:	Keep away from direct sunlight Store at -20°C <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	DiOC5(3) is a lipophilic and membrane potential-sensitive fluorescent dye commonly used for staining mitochondria in live cells. DiOC5(3) can also selectively label leukaemia stem cells (LSCs) and inhibit proliferation, leading to excessive ROS production and inhibition of NF-κB nuclear translocation.
Targets(IC50)	Mitochondrial Metabolism

Solubility Information

Solubility	DMSO: 40 mg/mL (73.47 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8366 mL	9.1832 mL	18.3665 mL
5 mM	0.3673 mL	1.8366 mL	3.6733 mL
10 mM	0.1837 mL	0.9183 mL	1.8366 mL
50 mM	0.0367 mL	0.1837 mL	0.3673 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- Zhang B, et al. In vivo selective imaging and inhibition of leukemia stem-like cells using the fluorescent carbocyanine derivative, DiOC5(3). *Biomaterials*. 2015;52:14-25.
- Crissman HA, et al. Supravital cell staining with Hoechst 33342 and DiOC5(3). *Methods Cell Biol*. 1990;33:89-95.

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