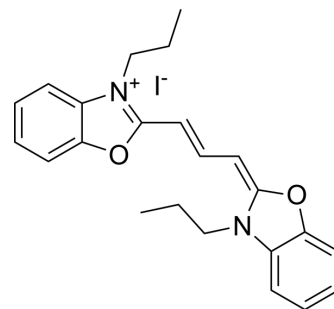


DiOC3(3)

Cat. No.:	HY-D1074
CAS No.:	53213-79-9
Molecular Formula:	C ₂₃ H ₂₅ IN ₂ O ₂
Molecular Weight:	488.36
Target:	Fluorescent Dye
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	DiOC3(3) (3,3'-Dipropylloxycarbocyanine iodide) is a green fluorescent lipophilic dye with cell membrane permeability. DiOC3(3) can be used to stain cell membranes and other lipid-soluble biological structures ^{[1][2]} .
In Vitro	DiOC3(3) is effluxed to a marked degree relative to the DiOC5-7(3) in the KB85 cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Wadkins RM, et al. Kinetics of transport of dialkylloxycarbocyanines in multidrug-resistant cell lines overexpressing P-glycoprotein: interrelationship of dye alkyl chain length, cellular flux, and drug resistance. *Biochemistry*. 1995 Mar 21;34(11):3858-72.

[2]. Kawabe Y, et al. Effects of DNA on the optical properties of cyanine dyes. *Proc SPIE*. 2010.

Caution: Product has not been fully validated for medical applications. For research use only.

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