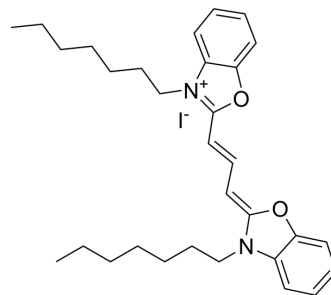


DiOC7(3)

Cat. No.:	HY-D1073
CAS No.:	53213-83-5
Molecular Formula:	C ₃₁ H ₄₁ IN ₂ O ₂
Molecular Weight:	600.57
Target:	Fluorescent Dye
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	DiOC7(3) (3,3'-Diheptyloxycarbocyanine iodide) is a green membrane potential probe (Ex=450-490 nm, Em=510-520 nm). DiOC7(3) can be used to quantify the vascular densities ^[1] .
In Vivo	<p>Identification for tumour vasculature (frozen section):</p> <p>Guidelines (Following is our recommended protocol. This protocol only provides a guideline, and should be modified according to your specific needs)^[1].</p> <ol style="list-style-type: none"> 1. The dye is administered to murine via lateral tail vein injection at a dose of 1 mg/kg/ in 50 µL volume. 2. Animals are killed 5 min after dye administration, and tumors are immediately excised and frozen at - 20°C. 3. Frozen sections 10 µm in thickness are rewarmed to room temperature, allowed to air dry. 4. Image using a microscope with 100W mercury lamp illumination and an epifluorescence condenser (excited at 430-490 nm, emitted at 510-520 nm). <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

[1]. M J Trotter, et al. Use of a carbocyanine dye as a marker of functional vasculature in murine tumours. Br J Cancer. 1989 May;59(5):706-9.

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

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