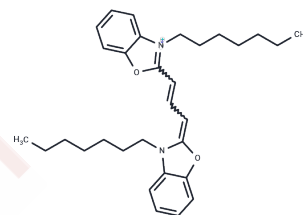


DiOC7(3)

## Chemical Properties

CAS No. : 53213-83-5  
 Formula: C<sub>31</sub>H<sub>41</sub>N<sub>2</sub>O<sub>2</sub>  
 Molecular Weight: 600.57  
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
 Actual storage temperature shall be subject to the COA.



## Biological Description

Description	3,3'-Diheptyloxycarbocyanine iodide (DiOC7(3)) is a green membrane potential probe with excitation and emission wavelengths of 450-490 nm and 510-520 nm, respectively. It is useful in quantifying vascular densities [1].
Targets(IC50)	Others
In vivo	<p>Identification of Tumor Vasculature (Frozen Section): 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"> <li>Administer the dye to mice via lateral tail vein injection at a dose of 1 mg/kg in a 50 <math>\mu</math>L volume.</li> <li>Sacrifice the animals 5 minutes post-administration, excise the tumors immediately, and freeze them at -20°C.</li> <li>Rewarm 10 <math>\mu</math>m thick frozen sections to room temperature and allow them to air dry.</li> <li>Image using a microscope with 100W mercury lamp illumination and an epifluorescence condenser (excitation at 430-490 nm, emission at 510-520 nm).</li> </ol>

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6651 mL	8.3254 mL	16.6508 mL
5 mM	0.333 mL	1.6651 mL	3.3302 mL
10 mM	0.1665 mL	0.8325 mL	1.6651 mL
50 mM	0.0333 mL	0.1665 mL	0.333 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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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