DiOC6(3) iodide (ultra pure)

Mitochondria dye

DiI, DiO, DiD and DiR dyes are a family of lipophilic fluorescent stains for labeling membranes and other hydrophobic structures. The fluorescence of these environment sensitive dyes is greatly enhanced when incorporated into membranes or bound to lipophilic biomolecules such as proteins although they are weakly fluorescent in water. Once applied to cells, these dyes diffuse laterally within the cellular plasma membranes, resulting in even staining of the entire cell at their optimal concentrations. DiOC6(3) is a green fluorescent membrane dye that has been used to detect mitochondrial membrane potential in live cells. The probe has also been employed in the analysis of apoptotic pathways by multiparametric flow cytometry. The dye has also been employed with the microfluidic Agilent 2100 bioanalyzer for assessing mitochondrial membrane potential. Wavelength Maxima: Excitation 482nm, Emission 504nm

Citations: 8 View Online »

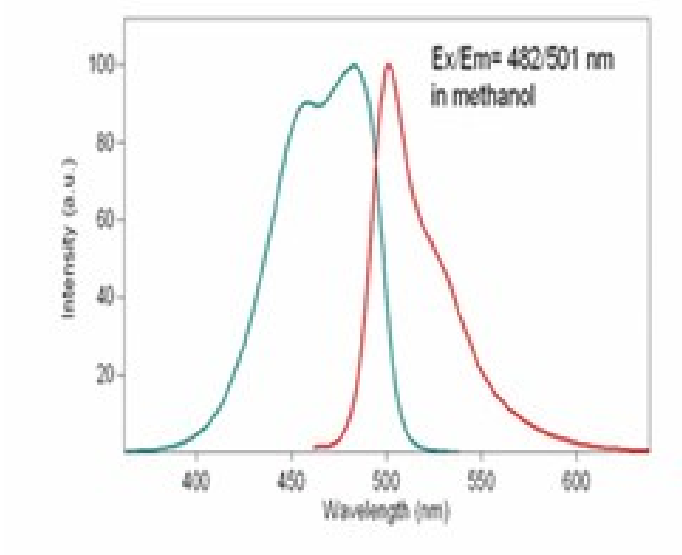
Ordering Information

Order Online »

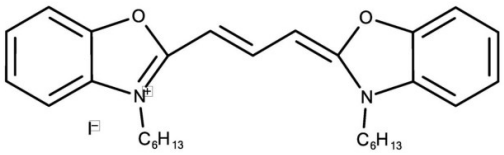
ENZ-52303	100mg

Manuals, SDS & CofA

View Online »



Cells labeled with DiO, can be analyzed using the conventional FL1 flow cytometer detection channels.



Handling & Storage

Use/Stability	Stable for at least one year after receipt when stored as recommended.
Handling	Protect from light. Keep cool and dry.
Long Term Storage	-20°C
Shipping	Ambient Temperature

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	3,3’-Dihexyloxacarbocyanine iodide
CAS	53213-82-4
MW	572.5
Purity	≥95% (HPLC)
Solubility	Soluble in DMSO.

Last modified: May 29, 2024

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