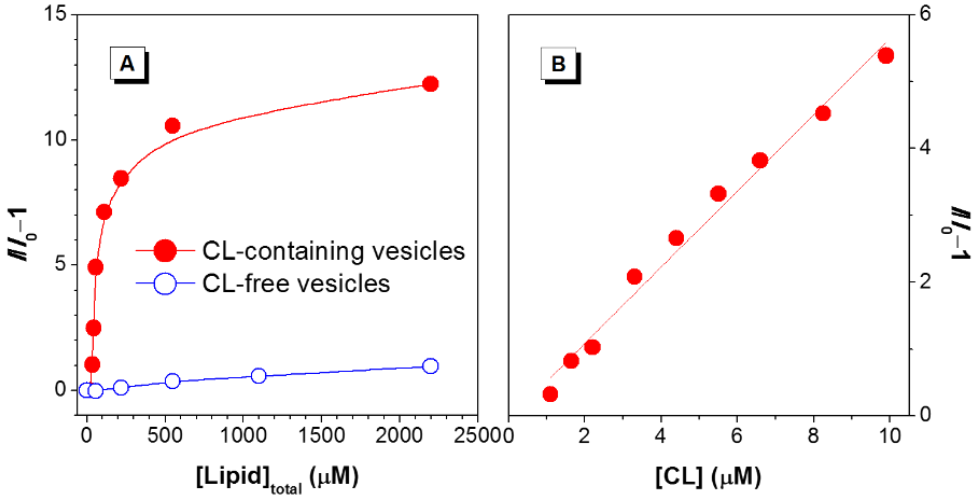
Product Specification

AIE™ Cardiolipin Probe



Product Description

- This product can be used for cardiolipin (CL) detection and quantification.
- This product has excellent brightness and higher sensitivity when compared to 10-Nonyl acridine orange (NAO), the commercial probes on the current market.

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- Demonstrations

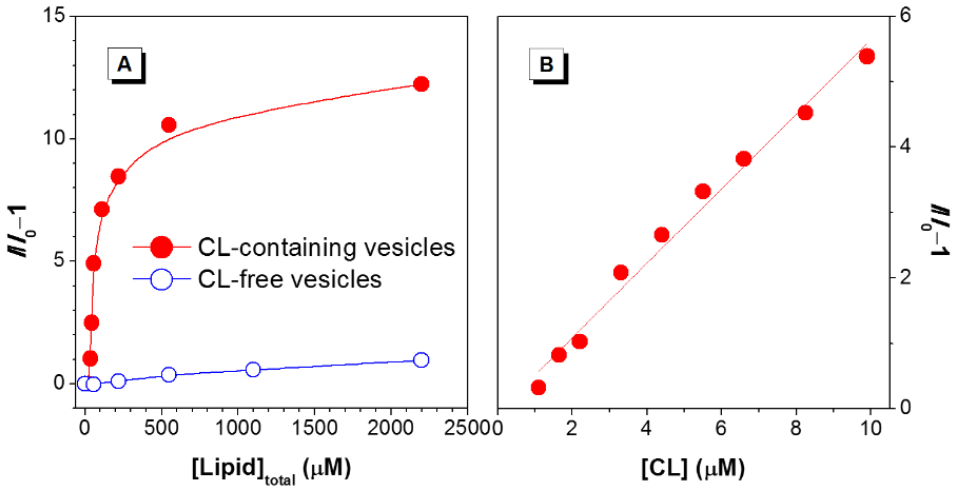

Figure 1: (A) Plot of the fluorescence enhancement ($I/I_0 - 1$) of AIE™ Cardiolipin at 480 nm with Cardiolipin-containing and Cardiolipin-free vesicles. (B) Linear region of the ($I/I_0 - 1$) value vs Cardiolipin concentration. [dye] = 10 μM; λ_{ex} = 350 nm.

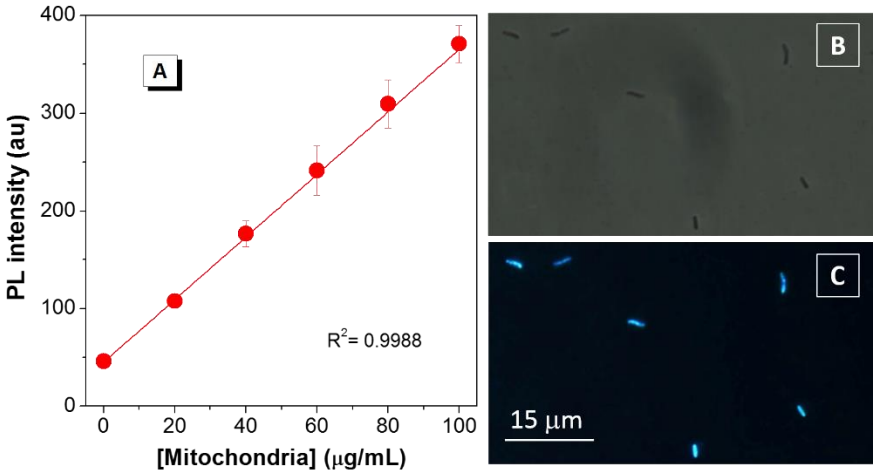

Figure 2: (A) Emission intensity of AIE™ Cardiolipin at 480 nm with different amounts of yeast mitochondria in SEM buffer (250 mM sucrose, 1 mM EDTA, 10 mM MOPS-KOH, pH 7.2). Images of AIE™ Cardiolipin stained yeast mitochondria were taken (B) under daylight and (C) with UV illumination. [dye] = 10 μM; λ_{ex} = 350 nm.

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Recommended storage condition

Store away from sunlight at 2-8 °C

Product parameters

Purpose	Detection of cardiolipin
Color:	Yellow
Imaging platform:	Fluorescence microscope
Pack size and quantity:	10 μmol
Detection method:	Fluorescence
Excitation/ Emission (nm):	350±20 / 480±30
Recommended transport condition:	Room temperature Protected from light
Product declaration:	Only used for research. Do not apply to any detection procedure.

Product operation method and handbook

[handbook is uploaded with PDF file]; [MSDS handbook]

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