

BioTracker™ 515 Green Zn²⁺ Dye

Live Cell Dye

Cat. # SCT031

pack size:1mg

FOR RESEARCH USE ONLY.
NOT FOR USE IN DIAGNOSTIC PROCEDURES.
NOT FOR HUMAN OR ANIMAL CONSUMPTION.

Store at -20°C



Data Sheet

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Background

Zinc (Zn²⁺), is a trace nutrient critical for physiological function. Although most biological zinc ions are tightly associated with proteins, pools of loosely bound or mobile forms serve regulatory or signaling functions, including nucleation of protein self-assembly, triggering of signaling pathways, and modification of cellular metabolism.

The BioTracker™ 515 Green Zn²⁺ Dye is a fluorescent imaging probe for the detection of Zn²⁺ in living cells. The BioTracker 515 Green Zn²⁺ Dye has high solubility, so that it is not permeable through the cell membrane. BioTracker 515 Green Zn²⁺ Dye DA has an additional acetyl group which make the reagent go inside the cell much easier, and the acetyl group is removed by the intracellular esterase which make the reagent stay inside the cell for extended periods of time.

Concentration of the provided sample is 5 mmol/L in DMSO. Dilute 1000 times with neutral buffer before use.

Storage

Store BioTracker 515 Green Zn²⁺ Dye at -20°C, desiccate and protect from light

Note: Centrifuge vial briefly to collect contents at bottom of vial before opening.

Spectral Properties

Absorbance: 492nm

Emission: 515nm

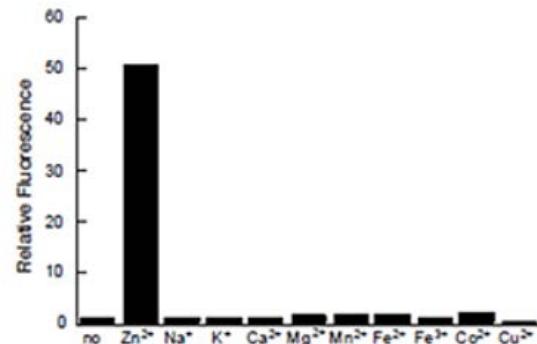


Figure 1. Fluorescent intensity of BioTracker 515 Green Zn²⁺ Dye with various metal ions.

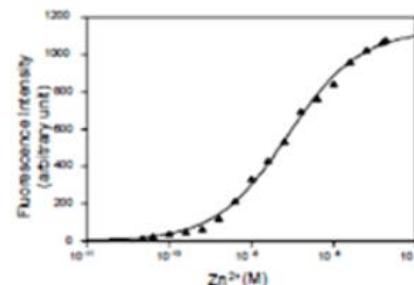


Figure 2. Fluorescence intensity of BioTracker 515 Green Zn²⁺ Dye with Zn²⁺

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BioTracker™ 515 Green Zn2+ Dye

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