

BioTracker™ 515 Green ONOO- Dye

Live Cell Dye

Cat. # SCT035

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

pack size:1mg

Store at -20°C



Data Sheet

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Background

Peroxynitrite (ONOO-) is a strong oxidant generated from the interaction of nitric oxide (NO) and superoxide (O₂⁻). The *in vivo* formation of this compound has recently been demonstrated in macrophages, neutrophils and endothelial cells. The role of ONOO- in inflammatory diseases is further supported by the detection of immunoreactive nitrotyrosine on proteins at sites of inflammation.

The BioTracker™ 515 Green ONOO- Dye is a fluorescent probe that detects peroxynitrite (ONOO-) in living cells. Fluorescent intensity is not increased by the existence of hydroxyl radical, singlet oxygen, hydrogen peroxide, hypochlorite, nitric oxide or superoxide.

Storage

Store BioTracker 515 Green ONOO- 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: 490nm

Emission: 515nm

Protocol

Dissolve all the reagent in 430 µL of DMSO (5mmol/L), and then dilute 500-5000 times with neutral buffer (final concentration: 1-10 µM) before use.

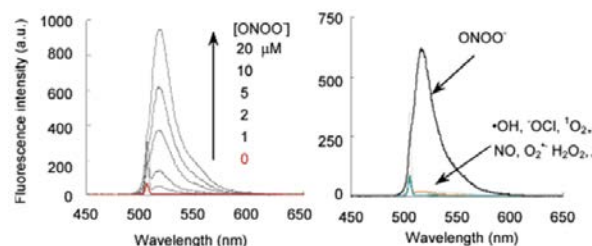


Figure 1. Fluorescence spectra of 10 µM BioTracker 515 Green ONOO- Dye upon addition of peroxynitrite (final 0, 1, 2, 5, 10, 20 µM). Fluorescence response of BioTracker 515 Green ONOO- Dye in various reactive oxygen species.

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