

BioTracker™ 510 Green β -Glu Dye

Live Cell Dye

Cat. # SCT026

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

Beta-glucosidase (β -Glu) catalyzes the hydrolysis of the glycosidic bonds to terminal non-reducing residues in beta-D-glucosides and oligosaccharides, with release of glucose.

The BioTracker™ 510 Green β -Glu Dye is permeable through the cell membrane and is fluorescent substrate [9- (4'-methoxy-2'-methylphenyl) -6- (β -D-glucopyranosyloxy) -xanthen-3-one] for detecting β -glucosidase in living cells. Non-fluorescent dye is hydrolyzed by the β -Glucosidase, and generates bright green fluorescence (510 nm) when it is irradiated by the 490 nm excitation light.

Storage

Store BioTracker 510 Green β -Glu 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: 510nm

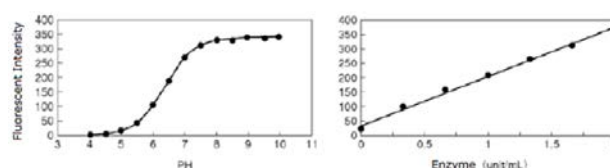


Figure 2. Fluorescent intensity (Ex. 492 nm, Em. 510 nm) of the BioTracker 510 Green β -Glu Dye was measured 500 sec after adding β -Glucosidase (Almond) to dye 10 μ M in Phosphate Buffer (pH7.0).

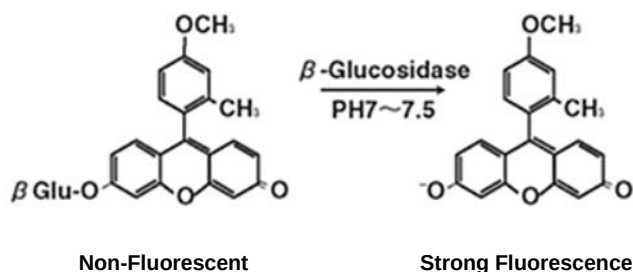


Figure 1. BioTracker 510 Green β -Glu Dye mechanism.

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