

BioTracker™ 510 Green β -GlcU(Na) Dye

Live Cell Dye

Cat. # SCT027

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

β -glucuronidase (β -GlcU) is a type of glucuronidase that catalyzes hydrolysis of β -D-glucuronic acid residues from the non-reducing end of mucopolysaccharides (also referred to as glycosaminoglycans) such as heparan sulfate. β -Glucuronidase (GUSB) is an important lysosomal enzyme and aids in lysosomal storage and function.

The BioTracker™ 510 Green β -GlcU(Na) is permeable through the cell membrane and is a fluorescent substrate for detecting β -glucuronidase in living cells. Non-fluorescent dye is hydrolyzed by β -glucuronidase, and generates bright green fluorescence (510 nm) when it is irradiated by the 490 nm excitation light.

Storage

Store BioTracker 510 Green β -GlcU(Na) 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

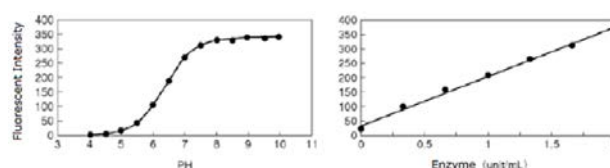


Figure 2. Fluorescent intensity (Ex. 492 nm, Em. 510 nm) of the BioTracker 510 Green β -GlcU(Na) Dye was measured 500 sec after adding β -Glucuronidase (*Escherichia coli*, Type IX-A) in Phosphate Buffer (pH7.0) containing dye (5 μ M).

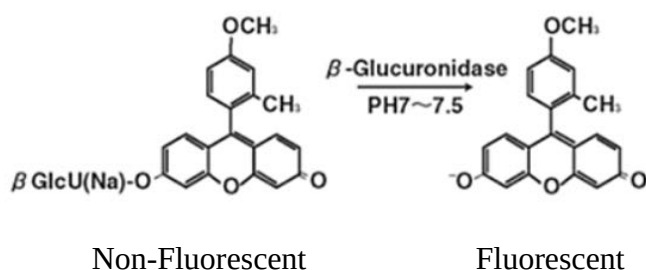


Figure 1. BioTracker 510 Green β -GlcU(Na) Dye mechanism.

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