

Golgi-Tracker Green

Introduction

Golgi-Tracker Green is a green-fluorescent probe that selectively labels Golgi of live cells. Golgi-Tracker Green is the BODIPY FL labeled C5-ceramide. Ceramide and its analogs can specially bind to Golgi. So fluorescent-labeled C5-ceramide (Golgi-Tracker Green) can label Golgi. Unlike conventional Golgi probe C-6 NBD Ceramide, Golgi-Tracker Green stains Golgi better and is more photostable. Golgi-Tracker Green stains live cells well but is not suitable for fixed cells.

Components and Storage

Components	B8813-1 mg
Golgi-Tracker Green	1 mg
This product should be stored at -20°C away from light and moisture. Stable for 1 year.	

Properties

Physical Appearance	Oil
M.Wt	601.62
Cas No.	133867-53-5
Formula	C ₃₄ H ₅₄ BF ₂ N ₃ O ₃
Ex/Em	505/511

Protocol

- Preparation of the stock solution:** Dissolve Golgi-Tracker Green in 332.4 µL DMSO to make a 5 mM stock solution. The stock solution should be stored at -20°C away from light. It is recommended to aliquot the stock solution into small volumes and avoid repeated freeze/thaw cycles.
- Preparation of the working solution:** Dilute the stock solution in a suitable buffer (for example, HBSS with Calcium and Magnesium or HBSS/HEPES) to make a working solution. The recommended concentration of the working solution is 5 µM. To reduce potential labeling artifacts, keep the concentration of working solution as low as possible. It is suggested to dilute Golgi-Tracker Green when using it.

***Note:** The optimal concentration of working solution varies depending on the type of cells.

- 3. Labeling of Golgi:** For adherent cells, grow cells to reach the desired density. Remove the growth medium and add working solution to cover the cells. Incubate at room temperature away from light for 20-30 min. After incubation, wash cells with medium twice, 5 min per time. Then detect the fluorescence signal of cells by a microscope with a FITC filter set. Under the microscope, significant labeling of Golgi apparatus and weaker labeling of other intracellular membranes should be seen.

***Note:** The optimal time for incubation varies depending on the type of cells. For suspension cells, harvest cells and perform similarly to the adherent cells.

Note

1. Golgi-Tracker Green stains live cells well and is not suitable for fixed cells. It is recommended to use C-6 NBD Ceramide (Catalog number: C5726) for staining of fixed cells.
2. Fluorescent probes are easy to quench, please protect them from light when using.
3. For your safety and health, please wear lab coats and gloves during the experiment.
4. For research use only. Not to be used in clinical diagnostic or clinical trials.

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