**Lumiprobe Corporation**
115 Airport Dr Suite 160
Westminster, Maryland 21157
USA
Phone: +1 888 973 6353
Fax: +1 888 973 6354
Email: order@lumiprobe.com

# CytoTracer® Green CM-BDP®

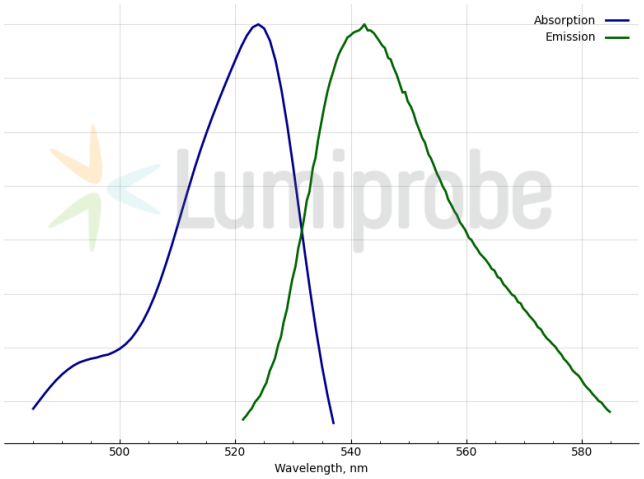
http://www.lumiprobe.com/p/celltracker-green-bdp

CytoTracer® Green CM-BDP® is a green fluorescent dye for labeling and long-term tracing of living cells. In working concentrations, the dye has little cytotoxicity and minimal effects on the proliferative ability or biology of the cell. It can be used to analyze cell proliferation, viability, localization, and motility for *in vivo* and *in vitro* assays.

CytoTracer® Green CM-BDP® is a cell-permeant stain that converts into cell-impermeant reaction products inside the cell. During proliferation, the label is transferred to daughter cells, but not adjacent cells in the population, and labeled cells keep the fluorescence for at least 72 hours or through three to six cell generations.

CytoTracer® Green CM-BDP® contains a chloromethyl group that reacts with thiol groups of internal cell components, utilizing a glutathione S-transferase-mediated reaction. This allows the stain to remain in cells after fixation and permeabilization steps and be used for subsequent immunofluorescence applications.


**Structure of CytoTracer Green BDP**




**Excitation and emission spectra of CytoTracer Green CM-BDP®**

## General properties

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|---|---|
| Appearance: | red-orange crystals |
| Molecular weight: | 296.56 |
| Molecular formula: | $C_{14}H_{16}BClF_2N_2$ |
| Solubility: | DMSO, DMF, DCM, acetonitrile, methanol |
| Quality control: | NMR $^1H$ and HPLC-MS (95+%) |
| Storage conditions: | 24 months after receival at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate. |
| Legal statement: | This Product is offered and sold for research purposes only. It has not been tested for safety and efficacy in food, drug, medical device, cosmetic, commercial or any other use. Supply does not express or imply authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, in the manufacture of food or pharmaceutical products, in medical devices or in cosmetic products. |

## Spectral properties

| | |
|---|---|
| Excitation/absorption maximum, nm: | 514 |
| Emission maximum, nm: | 542 |