

Dyes and Stains

Cell Navigator™ Golgi Staining Kit, Green

Kit containing C6 NBD ceramide for selectively staining the Golgi apparatus in live or aldehyde-fixed cells

Catalog #100-0837

100 Tests



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Product Description

Cell Navigator™ Golgi Staining Kit is an optimized assay kit for staining morphological features of the Golgi apparatus in live and fixed cells. This kit contains C6 NBD ceramide, a fluorescent analog of ceramide—a sphingosine derivative—that selectively stains the Golgi apparatus. C6 NBD ceramide fluorescence is weak in water, and increases in aprotic solvents and non-polar solvents. Therefore, C6 NBD ceramide is complexed with bovine serum albumin (BSA) prior to administration into cells; the resulting fluorescent metabolites stain the Golgi apparatus. The kit also contains a staining buffer, dimethyl sulfoxide (DMSO), and Hoechst 33342—a dye that selectively labels DNA—which can be used as a nuclear co-stain.

Excitation Wavelength: 488 nm

Emission Wavelength: 525 nm

Product Information

The following components are sold as a complete kit (Catalog #100-0837) and are not available for individual sale.

COMPONENT NAME	COMPONENT #	SIZE	STORAGE	SHELF LIFE
C6 NBD Ceramide	300-0451	1 vial	Store at -20°C. Protect from prolonged exposure to light.	Product stable until expiry date (EXP) on box label.
Staining Buffer	300-0452	25 mL	Store at -20°C. Protect from prolonged exposure to light.	Product stable until expiry date (EXP) on box label.
DMSO*	300-0453	200 µL	Store at -20°C. Protect from prolonged exposure to light.	Product stable until expiry date (EXP) on box label.
Hoechst 33342	300-0454	50 µL	Store at -20°C. Protect from prolonged exposure to light.	Product stable until expiry date (EXP) on box label.

*Please refer to the Safety Data Sheet (SDS) for hazard information. DMSO is a strong solvent and skin penetrant, and can transport many substances through the skin. DMSO can also penetrate some protective glove materials including latex and silicone. Extra caution should be utilized when handling this product.

Directions for Use

Please read the entire protocol before proceeding. The following protocol is for staining cells in a black-wall/clear-bottom 96-well plate. If using other cultureware, adjust volumes accordingly.

Preparation of C6 NBD Ceramide Stock and Working Solutions

- To prepare a C6 NBD Ceramide stock solution (100X), add 100 µL of DMSO to the vial of C6 NBD Ceramide. Mix thoroughly.
NOTE: If not used immediately, aliquot and store stock solution at -20°C. After thawing aliquots, use immediately; do not re-freeze.
- To prepare a C6 NBD Ceramide working solution, add 10 µL of C6 NBD Ceramide stock solution to 990 µL of Staining Buffer. Mix thoroughly. Use the working solution immediately; do not store.
- OPTIONAL: For nuclear stain, add 10 µL Hoechst 33342 to 1 mL C6 NBD Ceramide working solution.

Staining and Imaging Cells

- Plate cells in a black-wall/clear-bottom 96-well plate and treat cells as desired.
- Add 100 µL/well of C6 NBD Ceramide working solution directly to culture medium.
- Incubate at room temperature (15 - 25°C) or 37°C for 15 - 30 minutes; protect from light.
- Remove medium and add 100 µL/well of Staining Buffer.
- Incubate at room temperature or 37°C for 10 - 15 minutes.
- If desired, fix cells after staining, as follows:

- a. Remove Staining Buffer from cells and add 100 μ L/well of fixative (e.g. 4% formaldehyde in phosphate-buffered saline [PBS]).
 - b. Incubate at room temperature for 20 - 30 minutes.
 - c. Remove fixative and wash cells 2 - 3X with PBS.
 - d. Add 100 μ L/well of Staining Buffer.
7. Observe stained cells using a fluorescence microscope with a FITC filter set (or DAPI filter set if nuclear stain was used).

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