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Product Information

GolgiTrack™ Red

Catalog Number	Unit Size
C063	250 µg

Storage upon receipt:
- -20°C
- Protect from light

Product Description

GolgiTrack™ Red is a cell-permeable, non-fixable, green-fluorescent dye that selectively stains Golgi apparatus in live cells. This dye has an excitation and emission maximum of 582/592 nm and can be efficiently excited using a TRITC filter. **GolgiTrack™ Red** can also be used in sphingolipid transport and metabolism studies.

Experimental Protocols

Preparation of GolgiTrack™ Red–BSA Complexes

For staining of living cells, it is efficacious to add GolgiTrack™ Red in the form of complexes with BSA. BSA delivery complexes of GolgiTrack™ Red can be prepared as follows:

1.1 Add 318 µL of chloroform:ethanol (19:1 v/v) to the tube containing of GolgiTrack™ Red to make 1 mM solution.

1.2 Dispense 50 µL of GolgiTrack™ Red stock solution into a small glass test tube and dry, first under a stream of nitrogen, and then under vacuum for at least 1 hour. Redissolve in 200 µL of absolute ethanol.

1.3 Measure 10 mL of serum-free balanced salt solution such as Hanks' buffered salt solution + 10 mM HEPES, pH 7.4 (HBSS/HEPES) into a 50 mL plastic centrifuge tube. Add 3.4 mg (0.34 mg/mL) of defatted BSA.

1.4 Agitate the tube containing the 10 mL of the BSA solution on a vortex mixer. Inject the GolgiTrack™ Red solution in ethanol (200 µL) into the vortex. Store the resulting solution (5 µM GolgiTrack™ Red + 5 µM BSA) in a plastic tube at -20°C.

Staining the Golgi Complex in Living Cells with GolgiTrack™ Red

2.1 Rinse cells grown on glass coverslips in an appropriate medium (such as HBSS/HEPES).

2.2 Incubate the cells for 30 minutes at 4°C with 5 µM GolgiTrack™ Red-BSA complex in HBSS/HEPES.

2.3 Rinse the sample several times with ice-cold medium and incubate in fresh medium at 37°C for a further 30 minutes.

2.4 Wash the sample in fresh medium and examine using a fluorescence microscope. Prominent labeling of the Golgi apparatus and weaker labeling of other intracellular membranes should be seen.