



Biosensis P1 Polar Lipid Tracing Reagent

Catalogue No.:	TR-600-P1
Description:	TR-600-P1 is a cell-permeant stain with an affinity for polar lipids which can be used in a wide variety of live and fixed samples. TR-600-P1 provides excellent and rapid lipid staining used for fluorescent microscopy applications and automated imaging. This stain is an effective tracer of lipids (e.g. cholesterol, sphingolipid and phospholipid) and intracellular localisation. This stain allows for simple and quick application and is ideal for epifluorescence, confocal and multiphoton microscopy. It can be used on live and fixed samples and is compatible with other dyes. TR-600-P1 has a large Stokes Shift, is resistant to photobleaching and demonstrates low cytotoxicity. TR-600-P1 is manufactured by ReZolve Scientific.
Batch No.:	Please refer to the product label.
Unit size:	1.8 mg
Applications:	Fluorescent imaging of lipid-rich compartments. TR-600-P1 is an effective tracer of lipids (e.g. cholesterol, sphingolipid and phospholipid) and intracellular localisation. Sample types: live cells, fixed cells (4% paraformaldehyde), tissue (frozen only) Epifluorescence microscopy: YES Confocal microscopy: YES Multiphoton imaging: YES Infrared spectroscopy: YES Raman spectroscopy: YES Ex/Em: 405 nm / 550 nm Typical working dilution is 1:500 - 1:1,000 in appropriate buffer or cell culture medium. Biosensis recommends optimal dilutions/concentrations should be determined by the end user.
Specificity:	Cell penetration and localisation of TR-600-P1 has been confirmed in a range of cell lines; including adipocytes (3T3-L1), prostate cells (PNT2, PNT1a, LNCaP, 22RV1 and DU145), cardiomyocytes (H9c2) and neuronal cells (PC-12), and tissues; including adipose tissue (sheep and Drosophila), muscle tissue (sheep cardiac and skeletal) and brain (murine).
Reconstitution:	Spin vial briefly before opening. Reconstitute TR-600-P1 with 300 µL of DMSO to obtain a 10 mM stock solution, mix thoroughly before use. Avoid detergents such as Tween20 or supplements with high lipid content such as FBS. Low solubility in aqueous solutions may cause precipitation of dye if used at concentrations higher than those recommended.
Storage:	Product is shipped at room temperature. Store lyophilised product at room temperature, properly sealed and protected from light. Stock solution can be stored at room temperature, properly sealed and protected from light. Working solutions should be used immediately and not stored for later use.
Expiry Date:	Lyophilised product is stable for 6 months at room temperature if protected from light. After reconstitution in DMSO, liquid 10 mM stock solution is stable for 6 months at room temperature.
General References:	Bader CA et al. (2014) Modulation of the organelle specificity in Re(I) tetrazolato complexes leads to labeling of lipid droplets. RSC Advances 4, 16345-16351.
Reagent Kit protocol:	Please refer to our online product listing for current protocol/MSDS versions.

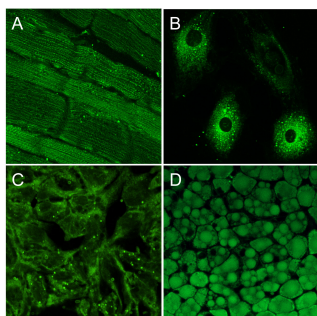
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MSDS:

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Staining of lipids with TR-600-P1 in muscle tissue (A), cardiomyocytes (B), vesicular structures (C) and fetal adipose tissue (D).

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