

DiR iodide [1,1'-di-octadecyl-3,3,3',3'-tetramethylindotricarbocyanine iodide]

Chemical Properties

CAS No.:	TD0085
Formula:	N/A
Molecular Weight:	N/A
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	DiI, DiO, DiD and DiR Dyes are a family of lipophilic fluorescent dyes used to label cell membranes and hydrophobic tissues. These are environmentally sensitive fluorescent dyes that increase their fluorescence intensity significantly when they bind to membranes or to lipophilic biomolecules such as proteins, although their fluorescence intensity is weak in water. They have high quenching coefficient, polarization dependence and short excitation life. Once applied to cells, the dye gradually diffuses through the cell's plasma membrane, leading to staining of the entire cell at its optimum concentration. Their different fluorescent colors, DiI (orange fluorescence), DiO (green fluorescence), DiD (red fluorescence), and DiR (dark red fluorescence), provide a convenient tool for multicolor fluorescence imaging analysis and flow cytometry in living cells.
In vitro	Stain adherent cells: Grow adherent cells on sterile glass coverslips. Remove coverslips from growth medium and gently drain off excess medium. Place coverslip in a humidity chamber. Pipet 100 µL of the dye working solution onto the corner of a coverslip and gently agitate until all cells are covered. Incubate the coverslip at 37°C for 2-20 minutes. Drain off the dye working solution and wash the coverslips two to three times with pre-warmed growth medium. Microscopy Detection: DiI, 549/565 nm, XF32-Omega, 31002-Chroma; DiR, 748/780 nm, XF112-Omega, 41009-Chroma

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Inhibitors · Natural Compounds · Compound Libraries

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use.

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