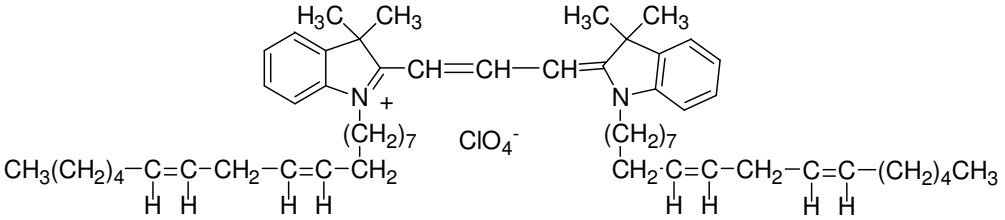
Dilinoleyl DiI

1,1'-dilinoleyl-3,3,3',3'-tetramethylindocarbocyanine perchlorate (also called FAST DiI)

Instruction Manual

Catalog Number	PK-CA707-60034
Description	Dilinoleyl DiI and DiI (Cat.No. PK-CA707-60010) have identical absorption and emission spectra. However, the unsaturated hydrocarbon chains of dilinoleyl DiI make the dye have a much faster lateral diffusion rate in cell membranes than regular DiI. This property makes dilinoleyl DiI particularly useful for tracing neurons in tissues.
Quantity	5 mg
Excitation / Emission Maxima	λex\λem (in MeOH) = 549/565 nm Extinction coefficient = 145,000 (in MeOH)
Molecular Structure	
Molecular Weight / Molecular Formula	925.82 Da; $C_{59}H_{89}ClN_2O_4$
Purity	>98% (as determined by TLC)
Appearance / Formulation / Solubility	Dark red oily paste; soluble in ethanol, DMF or DMSO.
Storage & Stability	Store at ≦4°C. Protect from light, especially when in solution.
Applications	See Description
References	1) Neuroreport 8, 3965(1997) 2) Biophys. J. 70, 988(1996) 3) J. Cell Biol. 134, 1427(1996)
Caution	Potentially harmful. Avoid prolonged or repeated exposure. Avoid getting in eyes, on skin, or on clothing. Wash thoroughly after handling. If eye or skin contact occurs, wash affected areas with plenty of water for 15 minutes and seek medical advice. In case of inhaling or swallowing, move individual to fresh air and seek medical advice immediately.

FOR IN VITRO RESEARCH USE ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC PROCEDURES.

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