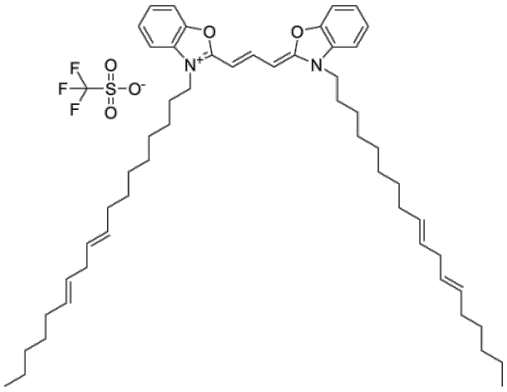
Product Data Sheet

Product Name: RAPID DiO
Cat. No.: GC80359

Chemical Properties

Cas. No.			
Formula	$C_{54}H_{77}F_3N_2O_5S$	M.Wt	923.26
Solubility		Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		

Structure



Background

RAPID DiO (Dilinoleyl DiO) is a cyanine dye with green fluorescence (EX≈490 nm; Em≈505 nm). RAPID DiO is a lipophilic dye that labels cell membranes by inserting its two long hydrocarbon (C18 carbon) chains into the lipid bilayer. RAPID DiO is weakly fluorescent until incorporated into membranes. RAPID DiO diffuses laterally to stain the entire cell, allowing it to be used as an anterograde and retrograde tracer of neurons.

In Vitro, RAPID DiO does not transfer from labeled to unlabeled cells in intact tissue, but some transfer may occur when the membrane is disrupted, for example, after sectioning.

Caution: Product has not been fully validated for medical applications. For research use only.
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