Dilinoleyl DiO

Dilinoleyl DiO (1,1′-dilinoleyl-3,3′-oxacarbocynanine perchlorate), also known as FAST DiO™, has identical absorption and emission spectra as DiO (#60011).



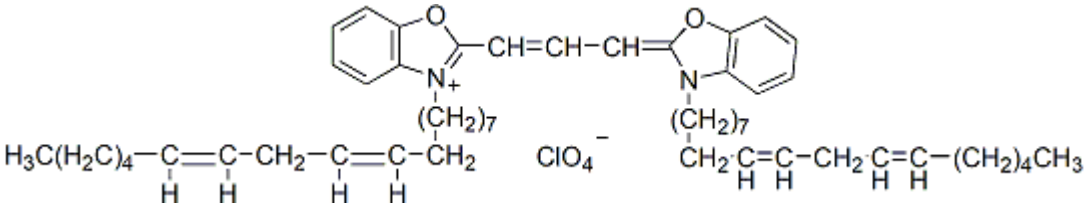
Product attributes

Probe cellular localization	Membrane/cell surface, Membrane/vesicular
For live or fixed cells	For fixed cells, For live/intact cells
Assay type/options	Co-cultures, Extended staining (several days to v
Fixation options	Fix before staining (formaldehyde), Fix after stair (formaldehyde), Permeabilize before staining
Colors	Green
Excitation/Emission	484/499 nm

Product Description

Dilinoleyl DiO (1,1'-dilinoleyl-3,3'-oxacarbocynanine perchlorate), also known as FAST DiO™, has identical absorption and emission spectra as DiO (#60011). However, due to its unsaturated hydrocarbon chains, dilinoleyl DiO has a much faster lateral diffusion rate in cell membranes than DiO.

- $\lambda_{Ex}/\lambda_{Em}$ (MeOH) = 484/499 nm
- ε = 140,000
- Yellow orange solid soluble in ethanol, DMF or DMSO
- Store at -20°C
- $C_{53}H_{77}ClN_2O_6$
- MW: 873.65



Fast DiO is a trademark of Thermo Fisher Scientific.

References

1. Neuron 17, 91 (1996).