

DiYO™-1 [equivalent to YOYO®-1]

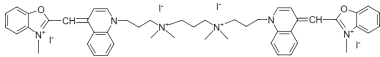
Catalog number: 17579

Unit size: 1 mg

Product Details

Storage Conditions	Freeze (<-15 °C), Minimize light exposure
Expiration Date	12 months upon receiving

Chemical Properties

Appearance	Solid
Molecular Weight	1270.65
Soluble In	Water
Chemical Structure	

Spectral Properties

Excitation Wavelength	491 nm
Emission Wavelength	508 nm

Applications

DiYO™-1 is chemically equivalent to YOYO®-1 (YOYO® is the trademark of Invitrogen). DiYO™-1 is a carbocyanine dimer with green fluorescence similar to FITC. It is cell-impermeant and easily distinguished from Cy5 and rhodamines as a nuclear counterstain and dead cell indicator. It is non-fluorescent in the absence of nucleic acids, and generates a very bright fluorescence signal upon binding to DNA. DiYO™-1 gives strong and selective nuclear staining in cultured cells and in paraffin sections. Simultaneous labeling with cell-permeable Nuclear Red™ LCS1 dye and cell-impermeant DiYO®-1 can be used to assess cell viability. DiYO™-1 and Nuclear Red™ both have much greater extinction coefficients than that of DNA-bound propidium iodide.