Calcein Deep Red™

Catalog Number: 21902
Unit Size: 1 mg

Product Details

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

Chemical Properties

Appearance	Solid black
Molecular Weight	373.66
Soluble In	DMSO

Spectral Properties

Excitation Wavelength	643 nm
Emission Wavelength	663 nm

Applications

Calcein Deep Red™ is a membrane-impermeant fluorescent dye designed specifically for use as a fluorescence reference standard. Unlike acetoxymethyl (AM) ester derivatives, Calcein Deep Red™ cannot readily cross intact cell membranes and therefore is not intended for live-cell loading or intracellular staining applications. The dye exhibits excitation and emission maxima of approximately 643 nm and 663 nm, respectively, making it compatible with standard Cy5 fluorescence detection settings.

Calcein Deep Red™ is primarily used as a fluorescence reference standard for assays employing Calcein Deep Red™ AM and related cell-permeant derivatives. It is also useful as a control reagent for evaluating membrane integrity, cell permeabilization, and liposome encapsulation or leakage. In addition, the dye can be used for fluorescence instrument calibration and assay standardization in red and near-infrared fluorescence detection workflows.

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