

BioTracker 488 Green Nuclear Dye Live cell imaging green nuclear staining dye with greater photostability than traditional blue fluorescent nuclear stains such as DAPI and Hoechst 33342.

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Unit EA

Description

The nucleus is a membrane-enclosed organelle found in eukaryotic cells. Cell nuclei contain most of the cell's genetic material, organized as multiple long linear DNA molecules in complex with a large variety of proteins, such as histones, to form chromosomes. Traditionally, DNA stains such as DAPI and Hoechst have been used for microscopy but require fixation and cannot be used for live cell imaging. The BioTracker 488 Green Nuclear Dye is a cell-membrane permeable green fluorescent DNA dye that specifically stains nuclei in live or fixed cells. It has excellent specificity for DNA without the need for a wash step, and it has low toxicity for live cell imaging. The dye is supplied with a vial of verapamil, an efflux pump inhibitor that may improve probe retention and live cell staining in certain cell types. Note: BioTracker Nuclear Dyes also shows blue fluorescence in the DAPI channel, and may not be suitable for multicolor imaging with blue probes. Spectral Properties Absorbance: 500nm Emission: 515nm