

Propidium Iodide

Cat. No. PI-021 Lot. No. (See product label)

SPECIFICATION

Product Overview

Description	Propidium iodide (PI) is a cell impermeable nucleic acid intercalating dye. Because PI is excluded from viable cells, it often used to selectively stain dead cells in a mixed live-dead cell population. PI is often used as a counterstain in multicolor fluorescence applications.
Form	Orange/red solid
Molecular Mass	668.4
Molecular Information	C ₂₇ H ₃₄ I ₂ N ₄
CAS number	25535-16-4
Solubility	Soluble in water or DMSO
Absorption/Emission	493/636 nm (without DNA), 535/617 nm (with DNA)
Probe cellular localization	Nucleus & cytoplasm
For live or fixed cells	For fixed cells
Detection method/readout	Fluorescence microscopy, Flow cytometry

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Assay type/options	DNA content/cell cycle profiling by flow cytometry, Live/dead discrimination, Long term staining (24-72h), No-wash staining, Real-time imaging, Tissue staining
Cell permeability	Membrane permeant
Apoptosis/viability marker	Dead cell stain
Colors	Red
Purity	> 95% by HPLC
Storage	Stored desiccated at 4 centigrade and protect from light, especially when in solution.
Reference	1. Cera Int, 46, 11762, (2020), DOI: 10.1016/j.ceramint.2020.01.210 2. Toxicon., 90, 191, (2020), DOI: 10.1016/j.toxicon.2014.08.059 3. J Asthma., 57, 459, (2020), DOI: 10.1080/02770903.2019.1585870
Structure of Propidium iodide	