

# Propidium Iodide

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

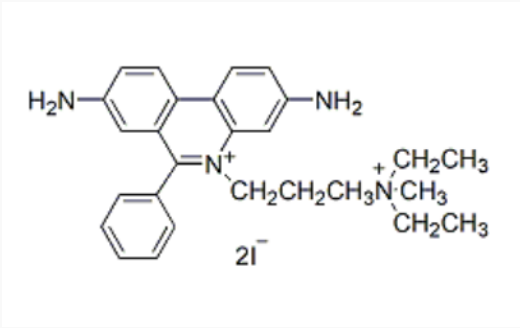
## SPECIFICATION


<b>Description</b>	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.
<b>Form</b>	Orange/red solid
<b>Molecular Mass</b>	668.4
<b>Molecular Information</b>	C <sub>27</sub> H <sub>34</sub> I <sub>2</sub> N <sub>4</sub>
<b>CAS number</b>	25535-16-4
<b>Solubility</b>	Soluble in water or DMSO
<b>Absorption/Emission</b>	493/636 nm (without DNA), 535/617 nm (with DNA)
<b>Probe cellular localization</b>	Nucleus & cytoplasm
<b>For live or fixed cells</b>	For fixed cells
<b>Detection method/readout</b>	Fluorescence microscopy, Flow cytometry

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<b>Assay type/options</b>	DNA content/cell cycle profiling by flow cytometry, Live/dead discrimination, Long term staining (24-72h), No-wash staining, Real-time imaging, Tissue staining
<b>Cell permeability</b>	Membrane permeant
<b>Apoptosis/viability marker</b>	Dead cell stain
<b>Colors</b>	Red
<b>Purity</b>	> 95% by HPLC
<b>Storage</b>	Stored desiccated at 4 centigrade and protect from light, especially when in solution.
<b>Reference</b>	<ol style="list-style-type: none"> <li>1. Cera Int, 46, 11762, (2020), DOI: 10.1016/j.ceramint.2020.01.210</li> <li>2. Toxicon., 90, 191, (2020), DOI: 10.1016/j.toxicon.2014.08.059</li> <li>3. J Asthma., 57, 459, (2020), DOI: 10.1080/02770903.2019.1585870</li> </ol>
<b>Structure of Propidium iodide</b>	

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