

## Propidium iodide \*1 mg/mL aqueous solution\*

Catalog Number: 17585

Unit Size: 5 mL

### Product Details

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Storage Conditions	Freeze (< -15 °C), Minimize light exposure,
Expiration Date	6 months upon receiving

### Chemical Properties

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Appearance	Liquid
Molecular Weight	668.39
Soluble In	DMSO

### Spectral Properties

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Excitation Wavelength	N/A
Emission Wavelength	N/A

### Applications

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Propidium iodide (PI) belongs to the same chemical class of ethidium bromide. As in the case of ethidium bromide its fluorescence is enhanced for 20-30-fold upon binding to nucleic acids. The fluorescence excitation maximum is red-shifted for 30–40 nm and the fluorescence emission maximum blue-shifted for 15 nm or so. PI also binds to RNA as DAPI and acridine orange. PI is commonly used for identifying dead cells in a population of cells and as a counterstain in multicolor fluorescent techniques. It can also be used to differentiate necrotic, apoptotic and normal cells. It is suitable for fluorescence microscopy, flow cytometry and fluorometry.