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Product Data Sheet

Propidium Iodide Solution

Catalog # / Size: 421301 / 2 ml

Formulation: Phosphate-buffered saline, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5 mg/ml

Storage: The solution should be stored undiluted between 2°C and 8°C, and protect from light. **Caution:** This solution contains hazardous material; handle with care.

Applications:

Applications: FC - *Quality tested*

Recommended Usage: The suggested use of this solution is 10 µl per 10^6 cells in 0.5 ml/test, and incubate for 15 minutes at 4 °C before analysis. **Caution:** This solution is *toxigenic* and *mutagenic*; handle with care.

Application Notes: Propidium Iodide Solution can be used in evaluation of apoptosis, cell viability and cell cycle analysis by flow cytometry.

Application References:

1. Vermes I, *et al.*1995. *J. Immunol. Methods* 184:39.
2. Darzynkiewicz Z, *et al.* 1992. *Cytometry* 13(8):795.
3. Douglas RS, *et al.* 1995. *J. Immunol. Methods* 188:219.
4. Sakimoto I, *et al.* 2006. *Cancer Research* 66:2287.PubMed
5. Liu H, *et al.* 2012. *Int J Biochem Cell Biol.* 45:408. PubMed
6. Juel HB, *et al.* 2013. *PLoS One.* 8:64619. PubMed
7. Ren Q, *et al.* 2013. *PLoS One.* 8:74732. PubMed
8. Zhao W, *et al.* 2013. *Clin Immunol.* 149:119. PubMed
9. Beggs KM, *et al.* 2014. *Toxicol Sci.* 137:91. PubMed
10. Ewald SE, *et al.* 2014. *Infect Immun.* 82:460. PubMed

Description: Propidium iodide (PI) is a fluorescent dye that binds to DNA. When excited by 488nm laser light, it can be detected with 562-588nm band pass filter. It is commonly used in evaluation of cell viability or DNA content in cell cycle analysis by flow cytometry.

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BioLegend Inc., 9727 Pacific Heights Blvd, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587