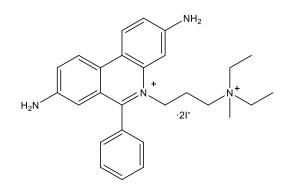


## Catalog # 10-5165 Propidium lodide

CAS# 25535-16-4 3,8-Diamino-5-[3-(diethylmethylammonio)propyl]-6-phenylphenanthridinium diiodide Lot # X102357



Propidium iodide is a red fluorescent DNA stain.<sup>1,2</sup> Membrane impermeable to live cells but permeable to dead or damaged cells and thus may be used for identifying cell viability or as a counterstain.<sup>3,4</sup> Binds to DNA by intercalation and is suitable for fluorescence microscopy and flow cytometry.<sup>2</sup> Ex.: 488-535 nm and Em.: 617 nm.

- 1) Coder et al. (1997), Assessment of cell viability; Curr. Protoc. Cytom., Suppl. 15
- 2) Edwards et al. (2007), High-throughput cytotoxicity screening by propidium iodide staining; Curr. Protoc. Cytom., Unit 9.24
- 3) Sawai and Domae (2011), Discrimination between primary necrosis and apoptosis by necrostatin-1 in Annexin Vpositive/propidium iodide-negative cells; Biochem. Biophys. Res. Commun., **411** 569
- 4) Pizato et al. (2018), Omega-3 docosahexaenoic acid induces pyroptosis cell death in triple-negative breast cancer cells; Sci. Rep., 8 1952

## PHYSICAL DATA

| Molecular Weight:      | 668.39   |
|------------------------|--|
| Molecular Formula:     | C <sub>27</sub> H <sub>34</sub> I <sub>2</sub> N <sub>4</sub>                      |
| Purity:                | >95% by HPLC   |
|                        | NMR: (Conforms)  |
| Solubility:            | DMSO (2.5 mg/ml); water (3 mg/ml)  |
| Physical Description:  | Red solid  |
| Storage and Stability: | Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. |
|                        | Solutions in DMSO or water may be stored at -20°C for up to 1 month.               |

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

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