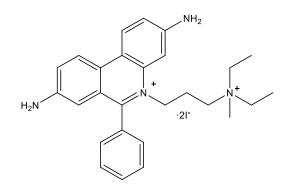


## Catalog # 10-5165 Propidium lodide

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.

Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462 www.focusbiomolecules.com