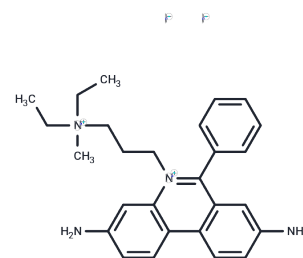


Propidium Iodide

Chemical Properties

CAS No. :	25535-16-4
Formula:	C ₂₇ H ₃₄ I ₂ N ₄
Molecular Weight:	668.39
Appearance:	no data available
Storage:	keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Propidium Iodide (PI) is a red fluorescent dye that can be used for cell staining and is suitable for fluorescence microscopy, confocal microscopy, flow cytometry, and fluorometer analysis. In aqueous solution, the Ex/Em of Propidium Iodide is 493/636 nm. And after binding with nucleic acid, the Ex/Em of PI-nucleic acid becomes 535/617 nm, while the fluorescence signal is enhanced 20-30 times.
Targets(IC50)	Others

Solubility Information

Solubility	H ₂ O: 5 mg/mL (7.48 mM), Sonication and heating to 60°C are recommended. DMSO: 6.68 mg/mL (10 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4961 mL	7.4807 mL	14.9613 mL
5 mM	0.2992 mL	1.4961 mL	2.9923 mL
10 mM	0.1496 mL	0.7481 mL	1.4961 mL
50 mM	0.0299 mL	0.1496 mL	0.2992 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Uchikura K, et al. Zygote. 2012 Nov;20(4):333-7.

Huang F, Liang J, Lin Y, et al. Repurposing of Ibrutinib and Quizartinib as potent inhibitors of necroptosis.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481