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Produktinformation

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- Diagnostik & molekulare Diagnostik
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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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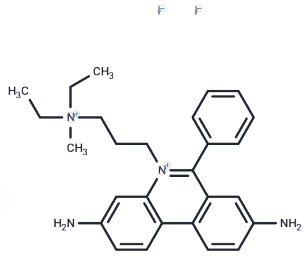
Data Sheet (Cat.No.T2130)

TargetMol

Propidium Iodide

Chemical Properties



CAS No. : 25535-16-4

Formula: C27H34I2N4

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
In vitro	**METHODS**: Propidium Iodide uptake and Flow cytometry to detect cell death: 1. Store the PI stock solution (0.5 mg/mL in PBS) in a dark place at 4°C. Immediately before use, prepare PI-FACS buffer by adding 20 μL of PI stock solution per 1 mL of PBS. 2. Collect suspended cells: Collect cells directly in centrifuge tubes and centrifuge at 500g for 5 min to harvest all cells. 3. Collect adherent cells: Remove and preserve the medium containing dead and mitotic cells. Isolate live cells using standard tissue culture techniques, such as incubation with trypsin-EDTA, and be sure to collect any washings (e.g., PBS). Add cells from the culture medium and cells from any wash solution to the isolated cells and centrifuge at 500 g for 5 min to harvest all cells. 4. Resuspend the harvested cells in PI-FACS buffer. The cells were incubated in the dark for 15 min at room temperature. 5. Determine the cell mortality rate by flow cytometry. [1]

Solubility Information

Solubility	H2O: 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)

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

Huang F, Liang J, Lin Y, et al.Repurposing of Ibrutinib and Quizartinib as potent inhibitors of necroptosis. Communications Biology.2023, 6(1): 972.