

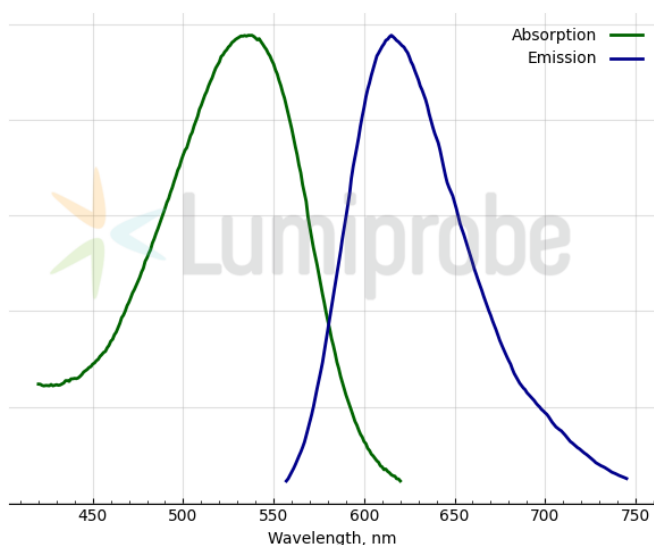
Propidium Iodide

<http://hk.lumiprobe.com/p/propidium-iodide>

Propidium iodide (PI) is a plasma membrane-impermeable intercalating DNA stain that allows discrimination between necrotic, apoptotic, and healthy cell populations based on membrane integrity. After binding to DNA, the dye emits an orange-red channel with an absorption maximum at 535 nm and an emission maximum at 617 nm. The quantum yield of the complex PI with DNA is 20-30 times higher than the quantum yield of free dye.

PI also binds to RNA, thus a pre-treatment with nucleases is required to distinguish between RNA and DNA staining. PI is also widely used in fluorescent staining and imaging of plant cell walls.

We offer Propidium iodide in a solid form and 0.1 mg/ml aqueous solution. The aqueous PI solution is a component of [Annexin V-AF 488 Apoptotic Cell Detection Kit](#).



外观: 深色晶體或橙色/紅色溶液

分子量: 668.41

CAS 编号: 25535-16-4

分子式: $C_{27}H_{34}I_2N_4$

IUPAC 名称: 3,8-diamino-5-(3-(diethyl(methyl)ammonio)propyl)-6-phenylphenanthridin-5-ium iodide

溶解度: 水含量低, DMSO 含量高

质量控制: NMR 1H 和 HPLC-MS (95+%)

储存条件: 收到後 -20°C 避光保存 24 個月。運輸: 室溫最多可保存3週。乾燥。

法律声明: 本產品僅供研究目的提供和銷售。本產品並未經過食品、藥品、醫療器械、化妝品等領域的安全性和效力測試, 且未經明示或暗示授權用於其他任何用途, 包括但不限於體外診斷、人類或動物用途, 以及商業用途。

激发/吸收极大值, 纳米: 537 (complex)

发射极大值, 纳米: 616 (complex)