

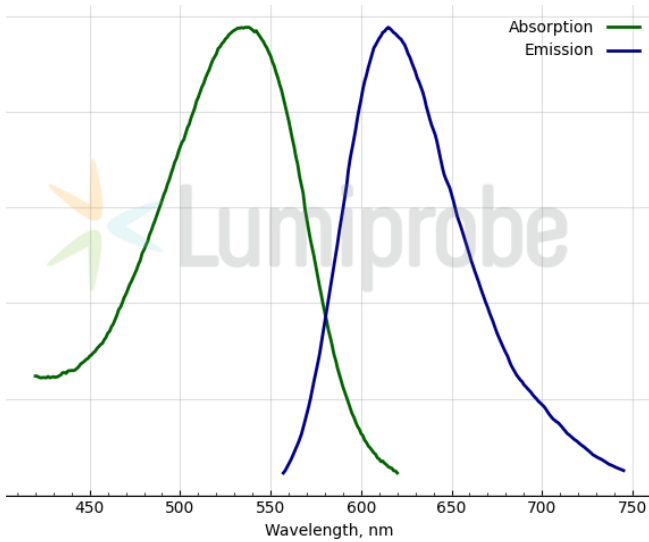
Propidium Iodide

<http://cn.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:	深色晶体或橙色/红色溶液
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:	收到后 $-20^{\circ}C$ 避光保存 24 个月。运输: 室温下最多可保存3周。干燥。
法律声明:	

激发/吸收极大值, 纳米: 537 (complex)

发射极大值, 纳米: 616 (complex)