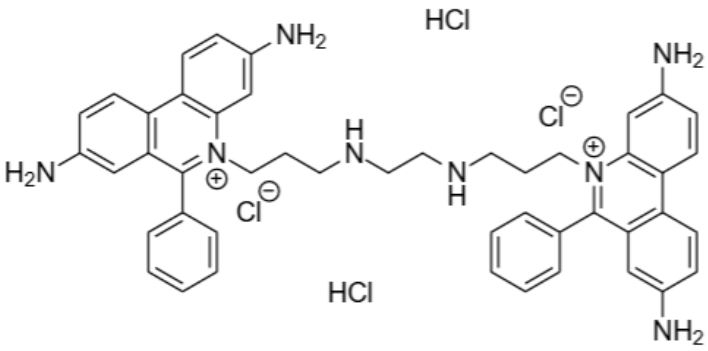
Product Specifications

Ethidium Homodimer I

Red Fluorescent Nucleic Acid Stain for Selectively Labeling Dead Cells with Compromised Plasma Membranes.



Available in these sizes:	
5010	1 mg (Dry)
5020*	0.5 mL in DMSO/H_2O

**Product must be shipped frozen*

Description	
CAS number	61926-22-5
PubChem CID	12328897
Molecular Weight	857 g/mol
Solubility	DMSO or H_2O
Concentration (5020 only)	2 mM in DMSO:H_2O (1:3)
Storage	-20°C
Appearance	Red film or pellet (5010) Clear red solution (5020, thawed)
Container	1.5 mL (5010) | 0.5 mL (5020) Polypropylene Cryogenic Vial

Fluorescence Spectrum	
Healthy Cells	No Fluorescence
Dead Cells	Red Fluorescence
Excitation max	528 nm
Emission max	617 nm

Also check out ION VITALS Viability Kit (Catalog # 5000) which contains both 2 mM Ethidium Homodimer I and 4 mM Calcein AM solutions which uses two fluorescent colors for discriminating between live and dead cells.

Purity	HPCE*
Minimum Purity	≥ 90%

**Determined by 3rd Party Analysis*

^1H NMR Spectrum *
Conforms to Structure

**Determined by 3rd Party Analysis*

Solution Concentration	BioTek Cytation 5 Cell Imaging Multi-mode Reader
Solvent	31X Dilution of 5020 in Water
Absorbance @ 495 nm	0.57 ± 0.086

Cell Assay (5020 Only)	BioTek Cytation 5 Cell Imaging Multi-mode Reader
Solvent	PBS, Cells are pre-treated with 0.1% Saponin in PBS
Signal to Background Ratio	To Pass Test
Imaging Analysis	Observed fluorescence intracellular minimal extracellular fluorescence