

Ethidium Homodimer I

Cat. No. EthD-I-018 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Description	Ethidium Homodimer I dye (EthD-I) is highly positively charged, it cannot cross cell membranes to stain living cells. It is useful for detecting nucleic acids in solution or for selectively staining dead cells with damaged plasma membranes in all cell types, including mammalian cells, bacteria and yeast.
Form	Red solid
Molecular Mass	857
Molecular Information	C ₄₆ H ₅₀ Cl ₄ N ₈
CAS number	61926-22-5
Solubility	Soluble in water or DMSO
Absorption/Emission	527/624 nm* (with DNA) *Ethidium Homodimer I also has a strong UV absorbance peak at 279 nm
Probe cellular localization	Nucleus & cytoplasm
Detection method/readout	Fluorescence microscopy, Flow cytometry

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Cell permeability	Membrane impermeant
Apoptosis/viability marker	Dead cell stain
Colors	Red
Stability	Product is stable for at least 5 years from date of receipt when stored as recommended.
Storage	Store the solid and the solution at 4 centigrade, desiccated and protected from light.
Reference	1. Anal. Methods, 12, 297, (2020), DOI: 10.1039/C9AY02038A 2. PLoS One, 14(5), e0217170, (2019), DOI: 10.1371/journal.pone.0217170 3. Cell Stress Chaperones., 24, 1175, (2019), DOI: 10.1007/s12192-019-01039-2

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