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# Ethidium Homodimer III (EthD-III), 1 mM in DMSO

A red fluorescent dead cell stain for bacteria and mammalian cells



## Product attributes

| | |
|---|---|
| **Probe cellular localization** | Nucleus & cytoplasm |
| **For live or fixed cells** | For live/intact cells |
| **Assay type/options** | Real-time imaging |
| **Cell permeability** | Membrane impermeant |
| **Apoptosis/viability marker** | Dead cell stain |
| **Colors** | Red |
| **Excitation/Emission** | 279, 522/593 nm (with DNA) |

## Product Description

Ethidium Homodimer III, also known as EthD-III, is a red fluorescent dead cell stain for bacteria and mammalian cells. It is a cell membrane-impermeant nucleic acid dye that stains only dead cells with damaged cell membranes. Ethidium Homodimer III was developed by Biotium as a superior alternative to Ethidium Homodimer I. The absorption and emission spectra are similar, but EthD-III is 45% brighter.

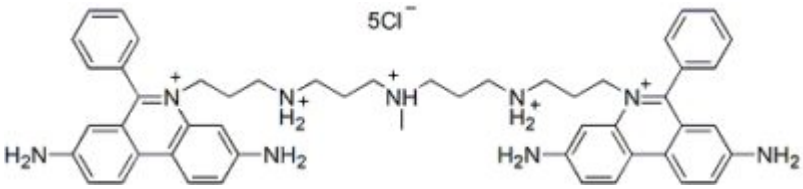
Ethidium Homodimer III is membrane impermeant and useful for selectively staining dead cells with damaged plasma membranes. It also is a component of several combination viability assay kits for detecting both live and dead cells in the same population, such as our Viability/Cytotoxicity Assay Kit for Animal Cells (Cat. No 30002) and our Viability/Cytotoxicity Assay Kit for Bacteria (Cat. No. 30027).

We also offer Ethidium Homodimer III in solid form (catalog no. 40050).

EthD-III is dead cell specific in all cell types, including mammalian cells, bacteria and yeast. See our Cellular Stains Table for more information on how our dyes stain various organisms.

**Product Features:**

- $\lambda_{Ex}/\lambda_{Em}$ (with DNA) = 522/593 nm* (EthD-III also has a large absorption peak at 279 nm)
- 1 mM solution in DMSO
- Store at 4 °C and protect from light
- MW: ~1000




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Product link: https://biotium-woo.supremeclients.com/product/ethidium-homodimer-iii-1mm-in-dmsoethd-iii-in-dmso/