

**PRODUCT AND SAFETY DATA SHEET****PRODUCT NAME:** Ethidium Homodimer III, 1mM in DMSO**CATALOG #** 40051**MOLECULAR INFORMATION:** MWt: ~1,000**PROPERTIES:****Color & Form** Red solution**Purity** ≥ 90% by TLC**Absorption/Emission**  $\lambda_{\text{abs}}$ (in H<sub>2</sub>O, no DNA) = 493nm  
 $\lambda_{\text{ex}}/\lambda_{\text{em}}$ (with DNA) = 530/620nm**STORAGE AND HANDLING:**

Stored at 4 °C. Protect from light, especially when in solution.

**APPLICATION:**

Ethidium Homodimer III was developed by Biotium as an alternative to Ethidium Homodimer I. It has absorption and emission spectra similar to those of Ethidium Homodimer I (see spectra below). However, the dye stains DNA 30% brighter than Ethidium Homodimer I. The dye is also a component of our Viability/Cytotoxicity Assay Kit for detecting both live and dead animal cells in the same population (#30002).



Absorption and emission of EthD-III bound to DNA

**TOXICITY:** Unknown**FIRST AID:** Potentially harmful. Avoid prolonged or repeated exposure. Avoid getting in eyes, on skin, or on clothing. Wash thoroughly after handling. If eye or skin contact occurs, wash affected areas with plenty of water for 15 minutes and seek medical advice. In case of inhaling or swallowing, move individual to fresh air and seek medical advice immediately.

**Disclaimer:** Materials from Biotium are sold for research use only, and are not intended for food, drug, household, or cosmetic use. Biotium is not liable for any damage resulting from handling or contact with this product.