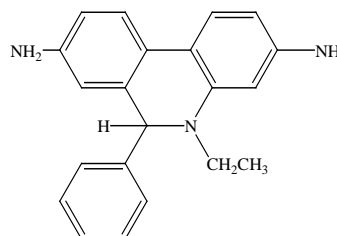


PRODUCT AND SAFETY DATA SHEET

PRODUCT NAME: **Dihydroethidium** (also called Hydroethidium, a trademark of Prescott Labs)**CATALOG #:** **10057****MOLECULAR INFORMATION:** C₂₁H₂₁N₃
Mwt: 315
[38483-26-0]**PROPERTIES:**

Color & Form	Pinkish solid
Purity	≥ 95% by HPLC
Solubility	Soluble in DMF

STORAGE AND HANDLING:

Store desiccated at -20 °C under nitrogen or argon, and protect from light.

APPLICATION:

Dihydroethidium (also called Hydroethidium, a trademark of Prescott) is the chemically reduced form of the commonly used DNA dye ethidium bromide. The probe is useful to detect oxidative activities in viable cells, including respiratory burst in phagocytes. Dihydroethidium itself is blue fluorescent (absorption/emission: 355/420nm) in cell cytoplasm while the oxidized form ethidium is red fluorescent (absorption/emission: 518/605 nm) upon DNA intercalation.

Ref.: 1) *J. Immunol. Meth.*, **170**, 117(1994); 2) *FEMS Microbiol. Lett.* **101**, 173(1992); 3) *J. Histochem. Cytochem.* **34**, 1109(1986); 4) *FEMS Microbiol. Lett.* **122**, 187(1994)

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.

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