PRODUCT NAME: Nonyl Acridine Orange (NAO)

CATALOG NUMBER: 70012

MOLECULAR INFORMATION: C$_{26}$H$_{38}$BrN$_3$, Mwt: 473

PROPERTIES:
- Color & Form: Orange solid
- Purity: $\geq$ 95% by HPLC
- Solubility: Soluble in DMSO
- $\lambda_{ex}/\lambda_{em}$: 495nm/519nm (MeOH)
- Extinction Coefficient ($\epsilon$): 84,000

STORAGE AND HANDLING: Store at 4 °C and protect from light, especially when in solution.

APPLICATION: NAO is a mitochondrial dye whose staining is not dependent on mitochondrial membrane potential, unlike JC-1 and rhodamine 123 (See 70010 and 70011). NAO has been used to study multidrug resistance and to measure changes in mitochondrial mass during apoptosis.


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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