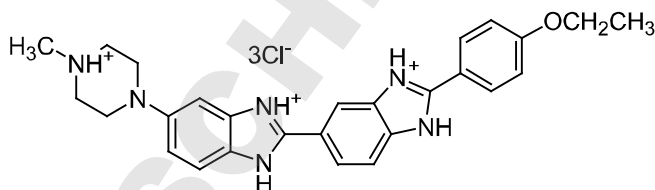


PRODUCT AND SAFETY DATA SHEET

PRODUCT NAME: Hoechst 33342

CATALOG # 40047

MOLECULAR INFORMATION: $C_{27}H_{31}Cl_3N_6O$
MWt: 561.93
[23491-52-3]



PROPERTIES:

Color & Form Light yellow solid
Solubility Soluble in water
Absorption/Emission 350/461 nm (DNA)
Extinction Coefficient

STORAGE AND HANDLING: Store at 4 °C and protect from light

APPLICATION: For ease and safe handling, we offer both Hoechst 33258 (#40045) and Hoechst 33342 (#40047) dissolved in H₂O at 10 mg/mL. Hoechst dyes are cell membrane-permeant, minor groove-binding blue fluorescent DNA stains. Hoechst dyes are widely used in cell cycle and apoptosis studies and also as nuclear counterstains. Hoechst 33342 is reported to be slightly more membrane-permeable than Hoechst 33258.

Ref: 1) *J. Cell Physiol.* **102**, 175 (1980); 2) *Proc. Natl. Acad. Sci. USA* **78**, 363 (1981); 3) *J. Histochem. Cytochem.* **24**, 24 (1976)

TOXICITY: Not established. Not listed by NTP, IARC or OSHA.

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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