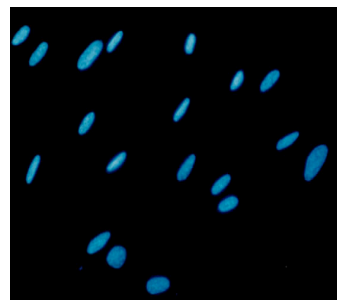
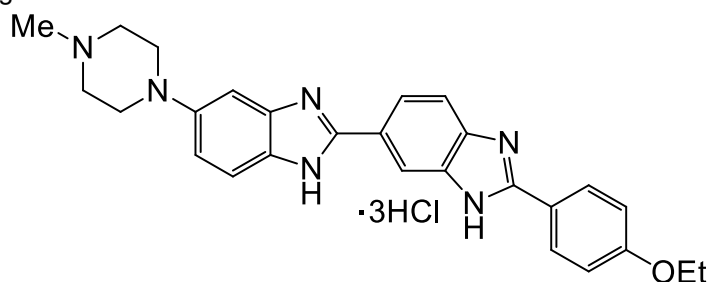


IS-7716

Hoechst 33342

Size: 100 mg

**Description:**

Chemical Name: Bisbenzimidazole, 2-(4-ethoxyphenyl)-5-(4-methyl-1-piperazinyl)-2,5-bis-1H-benzimidazole trihydrochloride

Appearance: Yellow green powder

MW: C₂₇H₃₁Cl₃N₆O=561.93

Storage Condition : 0-5°C, protect from light

Shipping Condition : Ambient temperature

Product Description

Hoechst dyes are cell membrane permeable and stain DNA to emit intense blue fluorescence. They bind to DNA in the minor groove of poly-AT sequence rich areas. Both Hoechst 33342 and Hoechst 33258 are water-soluble and stable in aqueous solutions. The excitation and emission wavelengths of Hoechst-DNA complex are 350 nm and 460 nm, respectively.

Staining Procedure

1. First prepare the stock HOECHST 33342 Dye solution: 1.9 mM Hoechst 33342 aqueous solution (1mg HOECHST 33342 Dye Powder in 1 ml dH₂O)
 2. Prepare 10-50 μM Hoechst dye solution with PBS or an appropriate buffer to dilute the stock solution.
 3. Add Hoechst dye solution with 1/10 of the volume of cell culture medium to the cell culture.
 4. Incubate the cell at 37 °C for 10-20 min.
 5. Wash cells twice with PBS or an appropriate buffer.
 6. Observe the cells under a fluorescence microscope with 350 nm excitation and 460 nm emission filters.
- a) Since Hoechst dyes may be carcinogenic, extreme care is necessary during handling.
b) Or you may replace the culture medium with 1/10 concentration of Hoechst dye buffer solution.

Safety warnings and precautions

Warning: For research use only. These example protocols utilize chemicals that may be hazardous, and should only be performed by appropriately qualified and well-trained persons.

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