Hoechst 33342 (ultra pure)

Hoechst 33342 is a cell-permeable DNA stain that produces bright blue fluorescence with low cytotoxicity - ideal for dynamic, high-contrast imaging in live-cell applications.

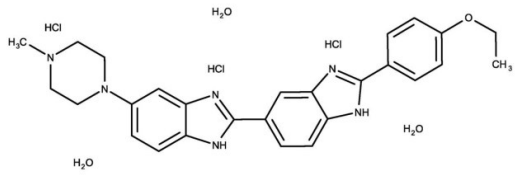
Hoechst 33342 is fluorescent probe useful for detecting DNA by fluorescence microscopy and flow cytometry. Hoechst 33342 may be used on live or fixed cells and is also applicable for cell cycle analysis and monitoring DNA condensation by flow cytometry. An additional ethyl group renders Hoechst 33342 more lipophilic, and thus more readily cell permeable than Hoechst 33258 . Exclusion of Hoechst 33342 dye is a characteristic common to stem cells, as well as chemotherapy-resistant cancer cells. Wavelength Maxima: Excitation 350nm, Emission 461nm

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Ordering Information Order Online »

ENZ-52401	100mg

Manuals, SDS & CofA View Online »


HCl
H3C
N
N
HCl
H2O
N
NH
H2O
HCl
N
NH
O
CH3
H2O

Handling & Storage

Use/Stability	Stable for at least one year after receipt when stored as recommended.
Handling	Protect from light. Keep cool and dry.
Long Term Storage	-20°C
Shipping	Ambient Temperature

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	2'-(4-Ethoxyphenyl)-5-(4-methyl-1-piperazinyl)-2,5'-bi-1H-benzimidazole
Appearance	Yellow solid.
CAS	23491-52-3
Formula	$C_{27}H_{28}N_6O$. 3HCl
MW	561.9
Purity	≥95% (HPLC)
Solubility	Soluble in water (50mg/ml) or DMSO (10mg/ml).
Technical Info / Product Notes	This product is a member of the CELLESTIAL® product line, reagents and assay kits comprising fluorescent molecular probes that have been extensively benchmarked for live cell analysis applications. CELLESTIAL® reagents and kits are optimal for use in demanding imaging applications, such as confocal microscopy, flow cytometry and HCS, where consistency and reproducibility are required.

Application Note:
Monitor Mitochondrial Membrane Potential in Cancer Cell Lines with a Dual-emission Fluorescent Dye

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