

Hoechst 33258 Solution (1 mg/mL)

Introduction

Hoechst 33258 is a commonly used nuclear probe that binds to DNA and emits blue fluorescence. As a cell-permeant probe, Hoechst 33258 can traverse the membranes of both live and fixed cells, making it suitable for nuclear staining.

This product is supplied as a 1 mg/mL solution in H₂O. Dilute to the desired working concentration before use. Stained samples can be analyzed by fluorescence microscopy or flow cytometry.

Storage

Store at -20°C protected from light, stable for one year.

Properties

Physical Appearance	Liquid
M.Wt	533.88
Cas No.	23491-45-4
Formula	C ₂₅ H ₂₇ Cl ₃ N ₆ O
Ex/Em	350/461 nm (after binding DNA)

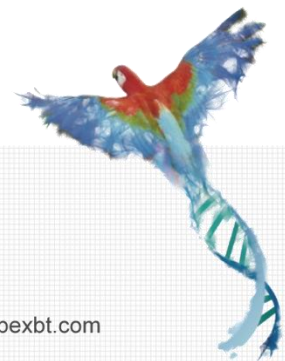
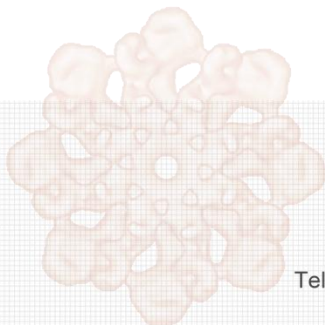
Protocol

1. Dilute the stock solution to the desired working concentration (typically 0.5-10 µg/mL) using PBS or an appropriate assay buffer.
2. Fix cells or tissue samples following your experimental protocol, and then wash thoroughly to remove the fixative. If performing immunofluorescence, complete antibody staining before proceeding to Hoechst 33258 staining.
3. For adherent cells or tissue sections, cover the sample with sufficient Hoechst 33258 working solution. For suspension cells, resuspend the cell pellet in at least 3 volumes of Hoechst 33258 working solution. Incubate at room temperature, protected from light, for 3-5 min.
4. Remove the Hoechst 33258 solution and wash the sample 2-3 times with PBS or an appropriate buffer. Observe by fluorescence microscopy or flow cytometry (Ex/Em: 350/461 nm).

***Note:** Apoptotic cells may show condensed or fragmented nuclei when stained with Hoechst 33258.

Note

1. This product is a Hoechst 33258 stock solution. For a ready-to-use Hoechst 33258 staining solution, please refer to product Hoechst 33258 Solution (Ready-to-Use) (Cat. No. K2406).
2. This product is light-sensitive. Protect from light during use and storage.
3. For your safety and health, please wear lab coats and gloves during the experiment.
4. For research use only. Not to be used in clinical diagnostic or clinical trials.



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