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产品名称：Hoechst 33342 (trihydrochloride)
产品别名：bisBenzimide H 33342 trihydrochloride; HOE 33342 trihydrochloride

生物活性：

Description	Hoechst 33342 trihydrochloride is a membrane permeant blue fluorescent DNA stain.
IC_{50} & Target	Dye reagent[1] DNA Stain[1]
In Vitro	Hoechst 33342 binds to adenine-thymine-rich regions of DNA in the minor groove. On binding to DNA, the fluorescence greatly increases. This protocol describes the use of Hoechst 33342 to label nuclear DNA of cells grown in culture. Hoechst 33342 can also be used to stain fixed cells by substituting Hoechst 33342 for DAPI[1].
Solvent&Solubility	***In Vitro:*** **DMSO : ≥ 46 mg/mL (81.86 mM)** **H_2O : ≥ 5.6 mg/mL (9.97 mM)** * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.7796 mL	8.8979 mL	17.7958 mL
	5 mM	0.3559 mL	1.7796 mL	3.5592 mL
	10 mM	0.1780 mL	0.8898 mL	1.7796 mL

*请根据产品在不同溶剂中的溶解度，选择合适的溶剂配制储备液；该产品在溶液状态不稳定，建议您现用现配，即刻使用。

References	[1]. Chazotte B. Labeling nuclear DNA with hoechst 33342. Cold Spring Harb Protoc. 2011 Jan 1;2011(1):pdb.prot5557.

实验参考：

Cell Assay	Labeling Nuclear DNA with Hoechst 33342[1] Step 1, Dilute the Hoechst stock solution 1:100 in H_2O for use in labeling. Step 2, Aspirate the cell medium from cells grown on coverslips. Rinse the cells three times with PBS^+. Step 3, Incubate the cells in the Hoechst labeling solution (from Step 1) for 10-30 min at room temperature. Step 4, Aspirate the labeling solution. Rinse the cells three times in PBS^+. Step 5, Mount the coverslips. Step 6, Image the cells (λex ~353 nm, λem ~483 nm for Hoechst 33342)[1].
References	[1]. Chazotte B. Labeling nuclear DNA with hoechst 33342. Cold Spring Harb Protoc. 2011 Jan 1;2011(1):pdb.prot5557.