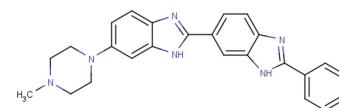


HOE 33187

Chemical Properties

CAS No.:	23623-08-7
Formula:	C ₂₅ H ₂₄ N ₆
Molecular Weight:	408.5
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Hoechst stains are part of a family of blue fluorescent dyes used to stain DNA. HOE 33187 is a cell dye for DNA. Hoechst dyes are soluble in water and in organic solvents such as dimethyl formamide or dimethyl sulfoxide. Concentrations can be achieved of up to 10 mg/mL. Aqueous solutions are stable at 2-6 °C for at least six months when protected from light. For long-term storage the solutions are instead frozen at ≤-20 °C. Hoechst dyes are cell-permeable and can bind to DNA in live or fixed cells. Therefore, these stains are often called supravital, which means that cells survive a treatment with these compounds.
Targets(IC ₅₀)	Others: None

Solubility Information

Solubility	DMSO: 2 mg/mL (4.90 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.448 mL	12.24 mL	24.48 mL
5 mM	0.49 mL	2.448 mL	4.896 mL
10 mM	0.245 mL	1.224 mL	2.448 mL
50 mM	0.049 mL	0.245 mL	0.49 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

- Latt SA, Stetten G, Juergens LA, Recent developments in the detection of deoxyribonucleic acid synthesis by 33258 Hoechst fluorescence. The journal of histochemistry and cytochemistry : official journal of the Histochemistry Society 23 (7): 493-505.
- a b c "Hoechst Stains". Invitrogen (Molecular Probes).
- Portugal J, Waring MJ. Assignment of DNA binding sites for 4',6'-diamidine-2-phenylindole and bisbenzimidazole (Hoechst 33258). A comparative footprinting study. Biochimica et Biophysica Acta 949 (2): 158-68.

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