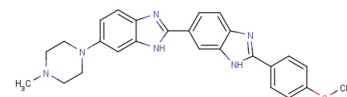


HOE 32021

Chemical Properties

CAS No.:	23623-06-5
Formula:	C ₂₆ H ₂₆ N ₆ O
Molecular Weight:	438.52
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 32021 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.
Targets(IC ₅₀)	Others: None

Solubility Information

Solubility	DMSO: 50 mg/mL (114.02 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.28 mL	11.402 mL	22.804 mL
5 mM	0.456 mL	2.28 mL	4.561 mL
10 mM	0.228 mL	1.14 mL	2.28 mL
50 mM	0.046 mL	0.228 mL	0.456 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

1. 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.
2. <http://www.ncbi.nlm.nih.gov/pubmed/2449244>
3. 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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Tel:781-999-4286

E-mail:info@targetmol.com

Address:36 Washington Street,Wellesley Hills,MA 02481