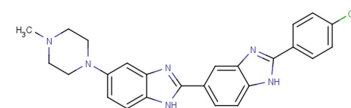


HOE 32020

Chemical Properties

CAS No.:	23554-99-6
Formula:	C ₂₅ H ₂₃ ClN ₆
Molecular Weight:	442.94
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	HOE 32020 is a Hoechst stain, a blue fluorescent dye, used to stain 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: 69 mg/mL (155.78 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.258 mL	11.288 mL	22.576 mL
5 mM	0.452 mL	2.258 mL	4.515 mL
10 mM	0.226 mL	1.129 mL	2.258 mL
50 mM	0.045 mL	0.226 mL	0.452 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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