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产品名称: **HOE 32020**
产品别名: **HOE 32020**

生物活性:					
Description	HOE 32020 is a Hoechst stain, which is a blue fluorescent dyes used to stain DNA. IC50 Value: These Bis-benzimides were originally developed by Hoechst AG, which numbered all their compounds so that the dye Hoechst 33342 is the 33342nd compound made by the company. There are three related Hoechst stains: Hoechst 33258, Hoechst 33342, and Hoechst 34580. The dyes Hoechst 33258 and Hoechst 33342 are the ones most commonly used and they have similarexcitation/emission spectra. Both dyes are excited by ultraviolet light at around 350 nm, and both emit blue/cyan fluorescent light around anemission maximum at 461 nm. Unbound dye has its maximum fluorescence emission in the 510-540 nm range. 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. The dyes bind to the minor groove of double-stranded DNA with a preference for sequences rich in adenine andthymine. Although the dyes can bind to all nucleic acids, AT-rich double-stranded DNA strands enhance fluorescence considerably. 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. Cells that express specific ATP-binding cassette transporter proteins can also actively transport these stains out of their cytoplasm.				
	In Vitro: DMSO : ≥ 69 mg/mL (155.78 mM) * "≥" means soluble, but saturation unknown.				
Solvent&Solubility	Preparing Stock Solutions	SolventMassConcentration	1 mg	5 mg	10 mg
		1 mM	2.2576 mL	11.2882 mL	22.5764 mL
		5 mM	0.4515 mL	2.2576 mL	4.5153 mL
		10 mM	0.2258 mL	1.1288 mL	2.2576 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; 一旦配成溶液, 请分装保存, 避免反复冻融造成的产品失效。 储备液的保存方式和期限: -80°C, 6 months; -20°C, 1 month (protect from light)。-80°C 储存时, 请在 6 个月内使用, -20°C 储存时, 请在 1 个月内使用。				
References	[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]. a b c "Hoechst Stains". Invitrogen (Molecular Probes). [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.				