

HOE 32020

Chemical Properties

CAS No. : 23554-99-6

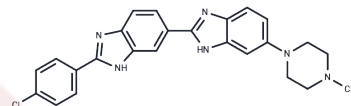
Formula: C₂₅H₂₃ClN₆

Molecular Weight: 442.94

Keep away from direct sunlight

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

| | |
|---------------|---|
| Description | HOE 32020 is a fluorescent dye and high-affinity DNA minor groove binder, specifically targeting A-T rich regions. It exhibits strong blue fluorescence upon DNA binding (Ex/Em: 352/461 nm) for nuclear imaging and cell cycle analysis. |
| Targets(IC50) | DNA |
| In vitro | HOE 32020 possesses potent DNA-binding capacity and is used for nuclear staining [1]. HOE 32020's fluorescence increases with pH, and it shows potential mutagenicity [2][3]. |

Solubility Information

| | |
|------------|--|
| Solubility | DMSO: 56 mg/mL (126.43 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|--|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 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 |
| 50 mM | 0.0452 mL | 0.2258 mL | 0.4515 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

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).

Cai J J, Zou J P, Pan X Q, et al. Gallium (III) triflate-catalyzed synthesis of quinoxaline derivatives[J]. Tetrahedron Letters, 2008, 49(52): 7386-7390.

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