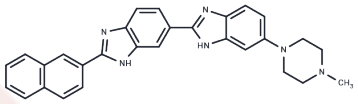
Data Sheet (Cat.No.T19006)

TargetMol

Hoechst 33258 analog 5

Chemical Properties



CAS No. : 23491-55-6

Formula: C29H26N6

Molecular Weight: 458.56

Storage: Keep away from direct sunlight
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	Hoechst 33258 analog 5 is a DNA minor groove binding fluorescent dye. It binds A/T-rich regions with strong blue emission, used for nuclear imaging and cell cycle quantification in flow cytometry.
Targets(IC50)	DNA
In vitro	Hoechst 33258 analog 5 (10 ug/mL) binds to A-T rich DNA regions for specific nuclear fluorescent labeling [1].

Solubility Information

Solubility	DMSO: 25 mg/mL (54.52 mM),Sonication is recommmended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1807 mL	10.9037 mL	21.8074 mL
5 mM	0.4361 mL	2.1807 mL	4.3615 mL
10 mM	0.2181 mL	1.0904 mL	2.1807 mL
50 mM	0.0436 mL	0.2181 mL	0.4361 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

Reiser O. Shining light on copper: unique opportunities for visible-light-catalyzed atom transfer radical addition reactions and related processes[J]. Accounts of Chemical Research, 2016, 49(9): 1990-1996.
a b c "Hoechst Stains". Invitrogren (Molecular Probes).
Portugal J, Waring MJ. Assignment of DNA binding sites for 4',6-diamidine-2-phenylindole and bisbenzimide (Hoechst 33258). A comparative footprinting study. Biochimica et Biophysica Acta 949 (2): 158-68.

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