

## DMA

## Chemical Properties

CAS No. : 188860-26-6

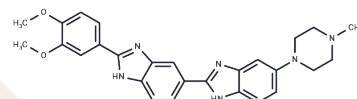
Formula: C<sub>27</sub>H<sub>28</sub>N<sub>6</sub>O<sub>2</sub>

Molecular Weight: 468.55

Storage: Keep away from direct sunlight, Keep away from moisture

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	DMA is a fluorescent small-molecule dye commonly used for labeling intracellular nucleic acids, proteins, or organelles ( $\lambda_{ex} = 340 \text{ nm}$ , $\lambda_{em} = 478 \text{ nm}$ ). DMA helps researchers track the intracellular localization and dynamic changes of molecules, such as endocytosis or protein transport processes.
Targets(IC50)	Others
In vitro	In the case of MCF7, the IC50 is observed at 5.3 $\mu\text{M}$ for DMA. The IC50 determined in the case of HeLa is 3.4 $\mu\text{M}$ for DMA.

## Solubility Information

Solubility	DMSO: 13 mg/mL (27.75 mM), Sonication is recommended. ( $< 1 \text{ mg/ml}$ refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1342 mL	10.6712 mL	21.3424 mL
5 mM	0.4268 mL	2.1342 mL	4.2685 mL
10 mM	0.2134 mL	1.0671 mL	2.1342 mL
50 mM	0.0427 mL	0.2134 mL	0.4268 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

Singh M, et al. Synthesis and biological activity of novel inhibitors of topoisomerase I: 2-aryl-substituted 2-bis-1H-benzimidazoles. Eur J Med Chem. 2011 Feb;46(2):659-69.

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