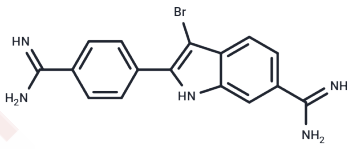
Data Sheet (Cat.No.T39967)

TargetMol

Br-DAPI

Chemical Properties



CAS No. : 2387906-44-5

Formula: C16H14BrN5

Molecular Weight: 356.22

Storage: Keep away from direct sunlight,Store at low temperature
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	Br-DAPI is a water-soluble, DNA-binding photosensitizer with antimicrobial activity and selective photocytotoxicity to bacterial and mammalian cells, and is used in the study of bacterial infections.
Targets(IC50)	Autophagy,Photosensitizer

Solubility Information

Solubility	DMSO: 80 mg/mL (224.58 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8073 mL	14.0363 mL	28.0725 mL
5 mM	0.5615 mL	2.8073 mL	5.6145 mL
10 mM	0.2807 mL	1.4036 mL	2.8073 mL
50 mM	0.0561 mL	0.2807 mL	0.5615 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

Digby EM, et al. Highly Potent Photoinactivation of Bacteria Using a Water-Soluble, Cell-Permeable, DNA-Binding Photosensitizer. ACS Infect Dis. 2021 Nov 12;7(11):3052-3061.

Kapuscinski J. DAPI: a DNA-specific fluorescent probe. Biotech Histochem. 1995 Sep;70(5):220-33. doi: 10.3109/10520299509108199.

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