

NDBM

Chemical Properties

CAS No. :

Formula: C33H35BrN4O7

Molecular Weight: 679.56

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	NDBM, a tumor-specific probe that targets Pim-1 kinase, exhibits heightened fluorescence upon binding and induces cytotoxicity, facilitating both cell screening and killing. It possesses targeted action on lysosomes and a sensitive pH response, enabling the monitoring of intracellular pH variations associated with autophagy and external stimuli [1].
Targets(IC50)	Autophagy,Pim
In vivo	NDBM exhibits lower fluorescence intensity in normal cells (HUVEC, RAW 264.7 cell lines) compared to tumor cells (MGC-803, HepG2, and Hela cell lines) [1]. At concentrations of 2.5, 5, 10, and 20 μ M over 18 hours, NDBM reduces the viability of tumor cells (MGC-803, HepG2, and Hela) [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4715 mL	7.3577 mL	14.7154 mL
5 mM	0.2943 mL	1.4715 mL	2.9431 mL
10 mM	0.1472 mL	0.7358 mL	1.4715 mL
50 mM	0.0294 mL	0.1472 mL	0.2943 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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