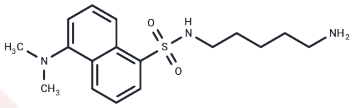
Data Sheet (Cat.No.T18968)

TargetMol

Dansylcadaverine

Chemical Properties



CAS No. : 10121-91-2

Formula: C17H25N3O2S

Molecular Weight: 335.46

Appearance: no data available

Storage: keep away from direct sunlight
Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	Dansylcadaverine (Monodansyl cadaverine) is a fluorescent probe.
Targets(IC50)	Autophagy
In vitro	The amount of actin-thymosin β4 crosslink is very low in the presence of Dansylcadaverine and transglutaminase, while there are large amounts of Dansylcadaverine-labeled thymosin β4 and actin. The amount of cross-link further decreases in the presence of Dansylcadaverine competing for Lys residues of either G-actin or thymosin β4 (100 μM). In the absence of thymosin β4, Dansylcadaverine-labeled actin polymerized to F-actin.
Cell Research	Dansylcadaverine staining a. Solution preparation: 1. Mother solution preparation: Prepare a certain concentration of Dansylcadaverine mother solution, store it at -20℃ or -80℃ in the dark after aliquoting. 2. Working solution preparation: Select the appropriate working solution concentration according to the experimental requirements, and try to prepare it before use. b. Operation steps: 1. Inoculate cells in a 6-well plate (or 12-well plate) at a concentration of 3x104 cells/well, and culture in a 5% CO2 incubator at 37℃. 2. Add 50 mM Dansylcadaverine working solution to each well and incubate for 15 minutes. 3. Rinse the cells 3 times with PBS and observe the staining under a microscope.

Solubility Information

Solubility	DMSO: 9 mg/mL (26.83 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.981 mL	14.9049 mL	29.8098 mL
5 mM	0.5962 mL	2.981 mL	5.962 mL
10 mM	0.2981 mL	1.4905 mL	2.981 mL
50 mM	0.0596 mL	0.2981 mL	0.5962 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.

Reference

Laha D, et al. Interplay between autophagy and apoptosis mediated by copper oxide nanoparticles in human breast cancer cells MCF7. Biochim Biophys Acta. 2014 Jan;1840(1):1-9.
Laha D, et al. Interplay between autophagy and apoptosis mediated by copper oxide nanoparticles in human breast cancer cells MCF7. Biochim Biophys Acta. 2014 Jan;1840(1):1-9.

Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481