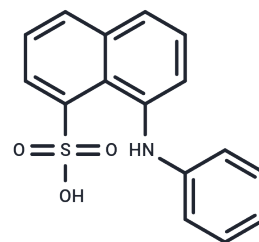


8-Anilino-1-naphthalenesulfonic acid

Chemical Properties

CAS No. :	82-76-8
Formula:	C ₁₆ H ₁₃ NO ₃ S
Molecular Weight:	299.34
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	8-Anilino-1-naphthalenesulfonic acid (1-Anilinonaphthalene-8-Sulfonic Acid) is a fluorescent probe used for detecting conformational changes in proteins.
Targets(IC50)	Others, Antibacterial
In vitro	8-Anilino-1-naphthalenesulfonic acid acts on <i>V. fisheri</i> bacteria, EC ₅₀ = 0.019 mg/mL. 8-Anilino-1-naphthalenesulfonic acid acts on colonic epithelial cells and fibroblasts with IC ₅₀ values of 0.382 mg/mL(LDH), 0.322 mg/mL(MTT), and 0.247 mg/mL(LDH). 0.295 mg/mL (MTT method). [1] 8-Anilino-1-naphthalenesulfonic acid has moderate affinity for Cdk2 KD = 37 μM, IC ₅₀ = 91 μM. [2]

Solubility Information

Solubility	DMSO: 80 mg/mL (267.25 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 3.3 mg/mL (11.02 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3407 mL	16.7034 mL	33.4068 mL
5 mM	0.6681 mL	3.3407 mL	6.6814 mL
10 mM	0.3341 mL	1.6703 mL	3.3407 mL
50 mM	0.0668 mL	0.3341 mL	0.6681 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

Polak J, et al. Bioactive Properties of a Novel Antibacterial Dye Obtained from Laccase-Mediated Oxidation of 8-Anilino-1-naphthalenesulfonic Acid. *Molecules*. 2022 Jan 13;27(2):487.

Faber EB, et al. Cooperativity Between Orthosteric Inhibitors and Allosteric Inhibitor 8-Anilino-1-Naphthalene Sulfonic Acid (ANS) in Cyclin-Dependent Kinase ACS Chem Biol. 2020 Jul 17;15(7):1759-1764.

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