

AQ4

Chemical Properties

CAS No. : 70476-63-0

Formula: C₂₂H₂₈N₄O₄

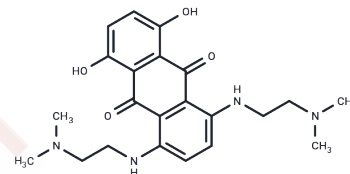
Molecular Weight: 412.48

Storage:

Keep away from moisture, Keep away from direct sunlight

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	AQ4 is a topoisomerase II inhibitor and DNA-inserting agent that displays antitumor activity in CRC cell lines.
Targets(IC50)	Apoptosis, Topoisomerase

Solubility Information

Solubility	DMSO: 4.86 mg/mL (11.78 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 0.49 mg/mL (1.19 mM), Solution. <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	2.4244 mL	12.1218 mL	24.2436 mL
5 mM	0.4849 mL	2.4244 mL	4.8487 mL
10 mM	0.2424 mL	1.2122 mL	2.4244 mL
50 mM	0.0485 mL	0.2424 mL	0.4849 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

Luan X, et al. A Tumor Vascular-Targeted Interlocking Trimodal Nanosystem That Induces and Exploits Hypoxia. Adv Sci (Weinh). 2018 May 28;5(8):1800034.

McErlane V, et al. A cytochrome P450 2B6 mediated gene therapy strategy to enhance the effects of radiation or cyclophosphamide when combined with the bio-reductive drug AQ4N. J Gene Med. 2005 Jul;7(7):851-9.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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