

Schinifoline

Chemical Properties

CAS No. : 80554-58-1

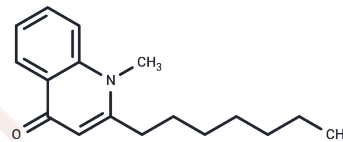
Formula: C17H23NO

Molecular Weight: 257.37

Store at low temperature

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	Schinifoline is a quinolone derivative extracted from Zanthoxylum schinifolium Sieb with cytotoxic activity that promotes radiosensitization of cancer cells, affects the cell cycle and apoptosis.
Targets(IC50)	Apoptosis, Cell Cycle Arrest, Antifungal
In vitro	This work aimed to investigate the radiosensitizing effect of Schinifoline (SF) on A549 cells. The cell viability results indicated cytotoxicity of SF on A549 cells, with IC50 values of 33.7 ± 2.4 , 21.9 ± 1.9 and 16.8 ± 2.2 $\mu\text{g}/\text{mL}$, respectively, after 6, 12, 24 h treatment with different concentrations, and the 10% or 20% IC50 concentration during 12 h was applied in later experiments. The results of cell proliferative inhibition and clonogenic assay showed that SF enhanced the radiosensitivity of A549 cells when applied before ^{60}Co γ -irradiation and this effect was mainly time and concentration dependent. The flow cytometric data indicated that SF treatment before the irradiation increased the G2/M phase, thus improving the radiosensitivity of A549, leading to cell apoptosis.[1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.8855 mL	19.4273 mL	38.8546 mL
5 mM	0.7771 mL	3.8855 mL	7.7709 mL
10 mM	0.3885 mL	1.9427 mL	3.8855 mL
50 mM	0.0777 mL	0.3885 mL	0.7771 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

Wang CF, et al. Radiosensitizing effect of schinifoline from Zanthoxylum schinifolium Sieb et Zucc on human non-small cell lung cancer A549 cells: a preliminary in vitro investigation. *Molecules*. 2014;19(12):20128-20138. Published 2014 Dec 1.

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