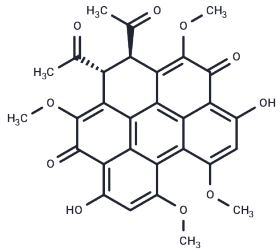
Data Sheet (Cat.No.T35549)

TargetMol

Elsinochrome A

Chemical Properties



CAS No. : 24568-67-0

Formula: C30H24O10

Molecular Weight: 544.51

Storage: Store at low temperature
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	Elsinochrome A is a natural perylenequinone photosensitizer with antifungal activity, inducing apoptosis and autophagy through reactive oxygen species (ROS) generation upon photoactivation, involved in photodynamic therapy (PDT).
Targets(IC50)	Apoptosis,Reactive Oxygen Species,Autophagy,Antifungal,ROS,Photosensitizer
In vitro	The MIC value of Elsinochrome A against Candida albicans was 1 μg/mL. Elsinochrome A (2, 4, 8, 16 and 32 μg/mL) treated the suspension of Candida albicans (106 CFU/mL). The results showed that the SMIC80 of Elsinochrome A against Candida albicans biofilm was 16 μg/mL. The results indicated that Elsinochrome A had strong anti-candida albicans activity. [1] When Hce-8693 cells were incubated with photoactivated Elsinochrome A, apoptosis was induced in a dose-dependent manner. [2]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8365 mL	9.1826 mL	18.3651 mL
5 mM	0.3673 mL	1.8365 mL	3.673 mL
10 mM	0.1837 mL	0.9183 mL	1.8365 mL
50 mM	0.0367 mL	0.1837 mL	0.3673 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

Pan L, et al. Inhibitory Effects and Mechanism of Action of Elsinochrome A on Candida albicans and Its Biofilm. J Fungi (Basel). 2022 Aug 11;8(8):841.

Ma L, et al. Photodynamic inhibitory effects of three perylenequinones on human colorectal carcinoma cell line and primate embryonic stem cell line. World J Gastroenterol. 2003 Mar;9(3):485-90.

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