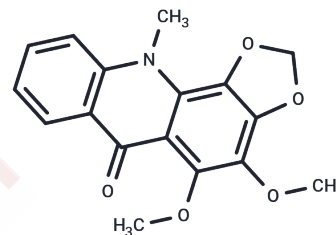


Melicopine

Chemical Properties

CAS No. :	568-01-4
Formula:	C17H15NO5
Molecular Weight:	313.31
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	Melicopine is an alkaloid found in <i>Z. simulans</i> , known for its antimalarial and anticancer properties. It inhibits <i>P. falciparum</i> strains, including chloroquine-sensitive 3D7 (IC50 of 29.7 µg/mL) and chloroquine-resistant Dd2 (IC50 of 33.7 µg/mL). Additionally, Melicopine exhibits cytotoxicity against prostate cancer cells PC-3M (IC50 of 47.9 µg/mL) and LNCaP (IC50 of 37.8 µg/mL), but it is inactive in non-cancerous HEK293 cells (IC50 greater than 100 µg/mL). Melicopine holds potential for research in anticancer and anti-infective applications.
Targets(IC50)	Parasite

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1917 mL	15.9586 mL	31.9173 mL
5 mM	0.6383 mL	3.1917 mL	6.3835 mL
10 mM	0.3192 mL	1.5959 mL	3.1917 mL
50 mM	0.0638 mL	0.3192 mL	0.6383 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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