

1-Methyl-2-pentyl-4(1H)-quinolinone

Chemical Properties

CAS No. : 22048-98-2

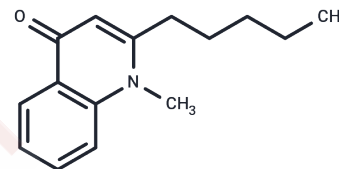
Formula: C₁₅H₁₉NO

Molecular Weight: 229.32

Storage: Keep away from direct sunlight, Store at low temperature, Keep away from moisture

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	1-Methyl-2-pentyl-4(1H)-quinolinone, a low toxic natural product containing a quinoline structure, is a specific inhibitor of Plasmodium falciparum type II NADH dehydrogenase (PfNDH2), significantly inhibits Plasmodium falciparum development in the mosquito stage and blocks malaria transmission.
Targets(IC50)	Antibacterial, Dehydrogenase

Solubility Information

Solubility	DMSO: 40 mg/mL (174.43 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: 2 mg/mL (8.72 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	4.3607 mL	21.8036 mL	43.6072 mL
5 mM	0.8721 mL	4.3607 mL	8.7214 mL
10 mM	0.4361 mL	2.1804 mL	4.3607 mL
50 mM	0.0872 mL	0.4361 mL	0.8721 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

Xiao-Xia Wang, et al. Quinolone Alkaloids With Antibacterial and Cytotoxic Activities From the Fruits of *Evodia Rutaecarpa*. *Fitoterapia*. 2013 Sep;89:1-7.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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