

Mepacrine

Chemical Properties

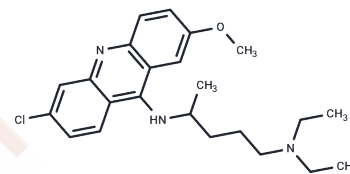
CAS No. : 83-89-6

Formula: C₂₃H₃₀ClN₃O

Molecular Weight: 399.96

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Mepacrine (Erion) is an acridine derivative formerly widely used as an antimalarial. It is used in cell biological experiments as an inhibitor of phospholipase A2.
Targets(IC50)	Apoptosis,Others,Parasite,Autophagy,Sodium Channel

Solubility Information

Solubility	DMSO: 60 mg/mL (150.02 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: 5 mg/mL (12.5 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	2.5003 mL	12.5013 mL	25.0025 mL
5 mM	0.5001 mL	2.5003 mL	5.0005 mL
10 mM	0.250 mL	1.2501 mL	2.5003 mL
50 mM	0.050 mL	0.250 mL	0.5001 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

Park S, et al. Therapeutic Effect of Quinacrine, an Antiprotozoan Drug, by Selective Suppression of p-CHK1/2 in p53-Negative Malignant Cancers. *Mol Cancer Res.* 2018 Mar 15.

Abdulaziz N, Shah AR, McCune WJ. Hydroxychloroquine: balancing the need to maintain therapeutic levels with ocular safety: an update. *Curr Opin Rheumatol.* 2018 May;30(3):249-255.

Jung D, et al. Quinacrine upregulates p21/p27 independent of p53 through autophagy-mediated downregulation of p62-Skp2 axis in ovarian cancer. *Sci Rep.* 2018 Feb 6;8(1):2487.

Nicastri MC, et al. Dimeric quinacrine as chemical tools to identify PPT1, a new regulator of autophagy in cancer cells. *Mol Cell Oncol.* 2017 Nov 30;5(1):e1395504.

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