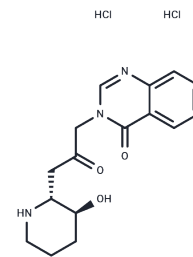


Febrifugine dihydrochloride

Chemical Properties

CAS No. :	32434-42-7
Formula:	C ₁₆ H ₂₁ Cl ₂ N ₃ O ₃
Molecular Weight:	374.26
Storage:	Store at low temperature, Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Febrifugine dihydrochloride (Propylidazine hydrochloride) is a biochemical with therapeutic activity regarding malaria, cancer, fibrosis and inflammatory diseases.
Targets(IC50)	Apoptosis, Parasite, DNA/RNA Synthesis

Solubility Information

Solubility	DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6719 mL	13.3597 mL	26.7194 mL
5 mM	0.5344 mL	2.6719 mL	5.3439 mL
10 mM	0.2672 mL	1.336 mL	2.6719 mL
50 mM	0.0534 mL	0.2672 mL	0.5344 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

Smullen S, McLaughlin NP, Evans P. Chemical synthesis of febrifugine and analogues. *Bioorg Med Chem*. 2018 May 15;26(9):2199-2220. doi: 10.1016/j.bmc.2018.04.027. Epub 2018 Apr 12. Review. PubMed PMID: 29681487.

Kikuchi H, Horoiwa S, Kasahara R, Hariguchi N, Matsumoto M, Oshima Y. Synthesis of febrifugine derivatives and development of an effective and safe tetrahydroquinazoline-type antimalarial. *Eur J Med Chem*. 2014 Apr 9;76:10-9. doi: 10.1016/j.ejmech.2014.01.036. Epub 2014 Jan 25. PubMed PMID: 24565569.

Jiang S, Zeng Q, Gettayacamin M, Tungtaeng A, Wannaying S, Lim A, Hansukjariya P, Okunji CO, Zhu S, Fang D. Antimalarial activities and therapeutic properties of febrifugine analogs. *Antimicrob Agents Chemother*. 2005 Mar; 49(3):1169-76. PubMed PMID: 15728920; PubMed Central PMCID: PMC549280.

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