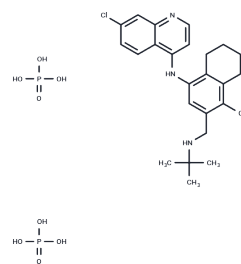


Naphthoquine phosphate

Chemical Properties

CAS No. :	173531-58-3
Formula:	C ₂₄ H ₃₄ ClN ₃ O ₉ P ₂
Molecular Weight:	605.94
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	Naphthoquine phosphate is a broad-spectrum 4-aminoquinoline antimalarial compound with oral activity that may affect viral entry and post-entry replication. Naphthoquine phosphate has hepatic vascular center toxicity and is often used with artemisinin to treat malaria.
Targets(IC50)	Parasite

Solubility Information

Solubility	DMSO: < 1 mg/mL (insoluble or slightly soluble) H ₂ O: 2 mg/mL (3.3 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6503 mL	8.2516 mL	16.5033 mL
5 mM	0.3301 mL	1.6503 mL	3.3007 mL
10 mM	0.165 mL	0.8252 mL	1.6503 mL
50 mM	0.033 mL	0.165 mL	0.3301 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

- Wang JY, et al. Naphthoquine phosphate and its combination with artemisinin. *Acta Trop.* 2004 Feb;89(3):375-81.
- Wang JY, et al. Therapeutic efficacy of naphthoquine phosphate combined with artemisinin against *Plasmodium knowlesi*. *Zhongguo Ji Sheng Chong Xue Yu Ji Sheng Chong Bing Za Zhi.* 2008 Dec 30;26(6):442-4.
- Ali AM, Gausi K, Jongo SA, Kassim KR, Mkindi C, Simon B, Mtoro AT, Juma OA, Lweno ON, Gwandu CH, Bakari BM, Mbagi TA, Milando FA, Hamad A, Shekalaghe SA, Abdulla S, Denti P, Penny MA. Population Pharmacokinetics of Antimalarial Naphthoquine in Combination with Artemisinin in Tanzanian Children and Adults: Dose Optimization. *Antimicrob Agents Chemother.* 2022 May 17;66(5):e0169621.
- Song Y, Deng Y, Wang H, Bei Z, Gu H, Zhao H, Wang H, Zhang D, Xu L, Wang B, Li Y, Wang H. Naphthoquine: A Potent Broad-Spectrum Anti-Coronavirus Drug In Vitro. *Molecules.* 2022 Jan 21;27(3):712.
- Ji S, et al. Inhibitory effect of naphthoquine phosphate on *Babesia gibsoni* in vitro and *Babesia rodhaini* in vivo. *Parasit Vectors.* 2022 Jan 7;15(1):10.
- Xie Y, et al. The Effect of Gastric pH on the Pharmacokinetics-pharmacodynamics of Naphthoquine in Rodents, as well as in Human Predicted Using a PBPK Model. *Curr Drug Metab.* 2021;22(5):363-371.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481