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产品名称: **Naphthoquine (phosphate)**

产品别名: **Naphthoquine phosphate**

<b>生物活性:</b>				
<b>Description</b>	<p>Naphthoquine phosphate is antimalarial drug. IC50 Value: N/A Target: Antiparasitic Naphthoquine phosphate and artemisinin are two antimalarials developed in China. Both drugs have proven to be efficacious and well tolerated as monotherapy as well as in combination in patients suffering from malaria. The Co-naphthoquine, a novel antimalarial combination, is an oral fixed combination tablet of the naphthoquine phosphate and artemisinin. Artemisinin is characterised by a rapid onset of schizonticidal action and a short half-life. Parasite clearance is, however, often incomplete when it is employed as a single agent unless high dosages are used over several days, but such a regimen may reduce patient compliance and increase the danger of toxicity. Naphthoquine phosphate, by contrast, has a slower onset of action and a longer half-life, associated with a low recrudescence rate.</p>			
<b>Solvent&amp;Solubility</b>	<b>In Vitro:</b> <b>H<sub>2</sub>O : 3.33 mg/mL (5.50 mM; Need ultrasonic)</b> <b>DMSO : &lt; 1 mg/mL (insoluble or slightly soluble)</b>			
		<b>Solvent Mass</b>	<b>1 mg</b>	<b>5 mg</b>
		<b>Concentration</b>		<b>10 mg</b>
	<b>Preparing</b>	1 mM	1.6503 mL	8.2516 mL
	<b>Stock Solutions</b>	5 mM	0.3301 mL	1.6503 mL
		10 mM	---	---
<p>*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液; 一旦配成溶液, 请分装保存, 避免反复冻融造成的产品失效。</p> <p>储备液的保存方式和期限 -80°C, 6 months; -20°C, 1 month。 -80°C 储存时, 请在 6 个月内使用, -20°C 储存时, 请在 1 个月内使用。</p>				
<b>References</b>	<p>[1]. Qu HY, et al. Single-dose safety, pharmacokinetics, and food effects studies of compound naphthoquine phosphate tablets in healthy volunteers. J Clin Pharmacol. 2010 Nov;50(11):1310-8.</p> <p>[2]. Tun T, et al. Efficacy of oral single dose therapy with artemisinin-naphthoquine phosphate in uncomplicated falciparum malaria. Acta Trop. 2009 Sep;111(3):275-8.</p> <p>[3]. 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):442-444.</p> <p>[4]. Wang JY, et al. Naphthoquine phosphate and its combination with artemisinin. Acta Trop. 2004 Feb;89(3):375-81.</p> <p>[5]. Wang SQ, et al. Therapeutic effect of dihydroartemisinin combined with naphthoquine phosphate in patients with falciparum malaria .Zhongguo Ji Sheng Chong Xue Yu Ji Sheng Chong Bing Za Zhi. 2002;20(3):180-2.</p> <p>[6]. El-Beshbishi SN, et al. First insight into the effect of single oral dose therapy with artemisinin-naphthoquine phosphate combination in a mouse model of Schistosoma mansoni infection. Int J Parasitol. 2013 Jun;43(7):521-530.</p>			