Naphthoquine phosphate

Cat. No.: HY-17036
CAS No.: 173531-58-3
Molecular Formula: \( C_{24}H_{34}ClN_3O_9P_2 \)
Molecular Weight: 605.94
Target: Parasite
Pathway: Anti-infection
Storage: 4°C, sealed storage, away from moisture
* In solvent: -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

**SOLVENT & SOLUBILITY**

<table>
<thead>
<tr>
<th>Solvent</th>
<th>Concentration</th>
<th>Mass, 1 mg</th>
<th>Mass, 5 mg</th>
<th>Mass, 10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>( \text{H}_2\text{O} )</td>
<td>1 mM</td>
<td>1.6503 mL</td>
<td>8.2516 mL</td>
<td>16.5033 mL</td>
</tr>
<tr>
<td>DMSO</td>
<td>1 mM</td>
<td>0.3301 mL</td>
<td>1.6503 mL</td>
<td>3.3007 mL</td>
</tr>
</tbody>
</table>

Please refer to the solubility information to select the appropriate solvent.

**BIOLOGICAL ACTIVITY**

**Description**
Naphthoquine phosphate is a potent and orally active antimalarial agent. Naphthoquine phosphate has thorough killing function for various schizonts of plasmodia, including resistance of \( P. falciparum \) to Chloroquine\(^1\)\(^2\).

**In Vivo**
The monkeys (Treated with Plasmodium knowlesi) are treated i.g. once daily for 3 days with 6 or 10 mg/kg of Naphthoquine phosphate respectively. At 24 h after Naphthoquine phosphate administration, the parasite reduction rate is higher than 90\(^\%\)\(^2\).

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

**REFERENCES**


Caution: Product has not been fully validated for medical applications. For research use only.

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