# Primaquine Diphosphate

**Cat. No.:** HY-12651  
**CAS No.:** 63-45-6  
**Molecular Formula:** $C_{15}H_{27}N_{3}O_{9}P_{2}$  
**Molecular Weight:** 455.34  
**Target:** Parasite  
**Pathway:** Anti-infection  
**Storage:**  
- Powder at -20°C for 3 years  
- Powder at 4°C for 2 years  
- In solvent at -80°C for 6 months  
- In solvent at -20°C for 1 month

## SOLVENT & SOLUBILITY

<table>
<thead>
<tr>
<th>In Vitro</th>
<th>H$_2$O : 50 mg/mL (109.81 mM; Need ultrasonic)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preparing Stock Solutions</td>
<td></td>
</tr>
<tr>
<td><strong>Concentration</strong></td>
<td><strong>Mass</strong></td>
</tr>
<tr>
<td>1 mM</td>
<td>2.1962 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.4392 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.2196 mL</td>
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</tbody>
</table>

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

## BIOLOGICAL ACTIVITY

**Description**  
Primaquine is the only generally available anti-malarial that prevents relapse in vivax and ovale malaria, and the only potent gametocytocide in falciparum malaria.

## REFERENCES

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

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