Broxyquinoline

Cat. No.: HY-B1212
CAS No.: 521-74-4
Molecular Formula: C₉H₅Br₂NO
Molecular Weight: 302.95
Target: Parasite
Pathway: Anti-infection
Storage: 4°C, protect from light
* In solvent: -80°C, 6 months; -20°C, 1 month (protect from light)

SOLVENT & SOLUBILITY

In Vitro
DMSO: 33.33 mg/mL (110.02 mM; Need ultrasonic)
H₂O: 0.67 mg/mL (2.21 mM; Need ultrasonic)

Preparing Stock Solutions

<table>
<thead>
<tr>
<th>Concentration</th>
<th>Mass (mg/mL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>3.3009 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>16.5044 mL</td>
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<tr>
<td>10 mM</td>
<td>33.0087 mL</td>
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</tbody>
</table>

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

In Vivo
1. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 1.67 mg/mL (5.51 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
Broxyquinoline (Dibromohydroxyquinoline) is a potent severe fever with thrombocytopenia syndrome virus (SFTSV) inhibitor with an IC₅₀ of 5.8 µM. Broxyquinoline is an antiprotozoal agent[^1][^2].

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REFERENCES

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