Metronidazole acetic acid

Cat. No.: HY-115249
CAS No.: 1010-93-1
Molecular Formula: C₆H₇N₃O₄
Molecular Weight: 185.14
Target: Bacterial; Parasite; Antibiotic
Pathway: Anti-infection
Storage: Please store the product under the recommended conditions in the Certificate of Analysis.

SOLVENT & SOLUBILITY

In Vitro
DMSO: 250 mg/mL (1350.33 mM; Need ultrasonic)

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent Concentration</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 mM</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>5 mM</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>10 mM</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

In Vivo
1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.08 mg/mL (11.23 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (11.23 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (11.23 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
Metronidazole acetic acid is a metabolite of Metronidazole with mutagenic activity in bacteria. Metronidazole is a nitroimidazole antibiotic, amebicide, and antiprotozoal agent used particularly for anaerobic bacteria and protozoa\(^{[1][2][3]}\).

REFERENCES

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

Tel: 609-228-6898  Fax: 609-228-5909  E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA