Faropenem daloxate

Cat. No.: HY-10004
CAS No.: 141702-36-5
Molecular Formula: \( \text{C}_{17}\text{H}_{19}\text{NO}_8\text{S} \)
Molecular Weight: 397.4
Target: Bacterial; Antibiotic
Pathway: Anti-infection
Storage:
- Powder: -20°C, 3 years; 4°C, 2 years; In solvent: -80°C, 2 years; -20°C, 1 year

**SOLVENT & SOLUBILITY**

In Vitro
- DMSO: \( \geq 100 \text{ mg/mL} \) (251.64 mM)
- \( \text{H}_2\text{O} \): \(< 0.1 \text{ mg/mL} \) (ultrasonic) (insoluble)

* "≥" means soluble, but saturation unknown.

<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>2.5164 mL</td>
<td>12.5818 mL</td>
<td>25.1636 mL</td>
</tr>
<tr>
<td></td>
<td>5 mM</td>
<td>0.5033 mL</td>
<td>2.5164 mL</td>
<td>5.0327 mL</td>
</tr>
<tr>
<td></td>
<td>10 mM</td>
<td>0.2516 mL</td>
<td>1.2582 mL</td>
<td>2.5164 mL</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: \( \geq 2.5 \text{ mg/mL} \) (6.29 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-\( \beta \)-CD in saline)
   Solubility: \( \geq 2.5 \text{ mg/mL} \) (6.29 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: \( \geq 2.5 \text{ mg/mL} \) (6.29 mM); Clear solution

**BIOLOGICAL ACTIVITY**

Description
Faropenem daloxate is the first oral penem in a new class of beta-lactam antibiotics. IC50 Value: Target: Antibacterial
Faropenem daloxate is useful for penem and antibiotics. Faropenem medoxomil has excellent in vitro activity against Streptococcus pneumoniae, Haemophilus influenzae and other key pathogens implicated in acute bacterial rhinosinusitis. Clinical studies have demonstrated that, in the treatment of acute bacterial rhinosinusitis in adults, 7 days of treatment with faropenem medoxomil is as clinically and bacteriologically effective as 10 days of treatment with cefuroxime...
axetil. One study showed faropenem medoxomil to be superior to cefuroxime axetil. Overall, the safety profile of faropenem medoxomil is similar to that of most comparators.

| IC₅₀ & Target | β-lactam |

REFERENCES


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

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