Mifamurtide

Cat. No.: HY-13682
CAS No.: 83461-56-7
Molecular Formula: C₅₉H₁₀₉N₆O₁₉P
Molecular Weight: 1237.5
Target: TRP Channel
Pathway: Membrane Transporter/Ion Channel; Neuronal Signaling
Storage: Powder
-20°C 3 years
4°C 2 years
In solvent
-80°C 6 months
-20°C 1 month

SOLVENT & SOLUBILITY

In Vitro

DMSO: ≥ 100 mg/mL (80.81 mM)
* “≥” means soluble, but saturation unknown.

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent Mass</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Concentration</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 mM</td>
<td></td>
<td>0.8081 mL</td>
<td>4.0404 mL</td>
<td>8.0808 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td></td>
<td>0.1616 mL</td>
<td>0.8081 mL</td>
<td>1.6162 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td></td>
<td>0.0808 mL</td>
<td>0.4040 mL</td>
<td>0.8081 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: ≥ 2.5 mg/mL (2.02 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (2.02 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
Mifamurtide (MTP-PE; CGP19835) is a drug against osteosarcoma. Mifamurtide is an immunomodulator with antitumor effects that appear to be mediated via activation of monocytes and macrophages. Mifamurtide is generally well tolerated; adverse events attributed to administration of the drug include chills, fever, headache, nausea, and myalgias. Based on the available data, mifamurtide can be considered for inclusion in treatment protocols for localized osteosarcoma [1]. Mifamurtide has orphan drug status for the treatment of osteosarcoma in the US and EU [2].
REFERENCES


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

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