## SOLVENT & SOLUBILITY

### In Vitro

DMSO : ≥ 250 mg/mL (643.35 mM)

* "≥" means soluble, but saturation unknown.

<table>
<thead>
<tr>
<th>Concentration</th>
<th>MW</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td></td>
<td>2.5734 mL</td>
<td>12.8670 mL</td>
<td>25.7341 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td></td>
<td>0.5147 mL</td>
<td>2.5734 mL</td>
<td>5.1468 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td></td>
<td>0.2573 mL</td>
<td>1.2867 mL</td>
<td>2.5734 mL</td>
</tr>
</tbody>
</table>

Prepare stock solutions according to the following table:

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 mM</td>
<td>DMSO</td>
<td>0.2573 mL</td>
</tr>
<tr>
<td>90% (20% SBE-β-CD in saline)</td>
<td>10% DMSO</td>
<td>2.08 mg/mL (5.35 mM); Clear solution</td>
</tr>
<tr>
<td>90% corn oil</td>
<td>10% DMSO</td>
<td>2.08 mg/mL (5.35 mM); Clear solution</td>
</tr>
</tbody>
</table>

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.08 mg/mL (5.35 mM); Clear solution

2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (5.35 mM); Clear solution

3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (5.35 mM); Clear solution

## BIOLOGICAL ACTIVITY

**Description**

Devimistat (CPI-613) is a lipoic acid analog that inhibits pyruvate dehydrogenase (PDH) and α-ketoglutarate dehydrogenase, disrupts mitochondrial metabolism and shows strong antitumor activity.

## CUSTOMER VALIDATION

Product Data Sheet

Inhibitors - Agonists - Screening Libraries

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REFERENCES


[3]. Safety and Effectiveness Study of CPI-613 to Treat Refractory or Relapsed Leukemia and Myelodysplastic Syndrome

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