Deferiprone

**Product Data Sheet**

**Deferiprone**

Cat. No.: HY-B0568  
CAS No.: 30652-11-0  
Molecular Formula: C₇H₈NO₂  
Molecular Weight: 139.15  
Target: HCV; Ferroptosis  
Pathway: Anti-infection; Apoptosis  
Storage: Powder -20°C 3 years  
4°C 2 years  
In solvent -80°C 6 months  
-20°C 1 month

**SOLVENT & SOLUBILITY**

**In Vitro**

<table>
<thead>
<tr>
<th>Solvent</th>
<th>Mass Concentration</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMSO</td>
<td>1 mM</td>
<td>7.1865 mL</td>
<td>35.9324 mL</td>
<td>71.8649 mL</td>
</tr>
<tr>
<td></td>
<td>5 mM</td>
<td>1.4373 mL</td>
<td>7.1865 mL</td>
<td>14.3730 mL</td>
</tr>
<tr>
<td></td>
<td>10 mM</td>
<td>0.7186 mL</td>
<td>3.5932 mL</td>
<td>7.1865 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: ≥ 0.71 mg/mL (5.10 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 0.71 mg/mL (5.10 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 0.71 mg/mL (5.10 mM); Clear solution

**BIOLOGICAL ACTIVITY**

Description: Deferiprone is the only orally active iron-chelating drug to be used therapeutically in conditions of transfusional iron overload. TargetDeferiprone is an orphan drug designed and developed primarily by academic initiatives for the treatment of iron overload in thalassaemia. Deferiprone has been used in several other iron or other metal imbalance conditions and has prospects of wider clinical applications. Deferiprone has high affinity for iron and interacts with almost all the iron pools at the molecular, cellular, tissue and organ levels. Doses of 50-120 mg/kg/day appear to be effective in bringing patients to negative iron balance. Deferiprone increases urinary iron excretion, which mainly
depends on the iron load of patients and the dose of the drug.

CUSTOMER VALIDATION


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REFERENCES


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