Nonanal

Cat. No.: HY-N8016
CAS No.: 124-19-6
Molecular Formula: C₉H₁₈O
Molecular Weight: 142.24
Target: Others
Pathway: Others

Storage: Pure form
-20°C 3 years
In solvent
-80°C 6 months
-20°C 1 month

SOLVENT & SOLUBILITY

In Vitro

DMSO: 100 mg/mL (703.04 mM; Need ultrasonic)

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent Mass Concentration</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 mM</td>
<td></td>
<td>7.0304 mL</td>
<td>35.1519 mL</td>
<td>70.3037 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td></td>
<td>1.4061 mL</td>
<td>7.0304 mL</td>
<td>14.0607 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td></td>
<td>0.7030 mL</td>
<td>3.5152 mL</td>
<td>7.0304 mL</td>
</tr>
</tbody>
</table>

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (17.58 mM); Clear solution

2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (17.58 mM); Clear solution

3. Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (17.58 mM); Clear solution

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

BIOLOGICAL ACTIVITY

Description
Nonanal is a saturated fatty aldehyde with antidiarrhoeal activity\(^1\).

In Vitro
Nonanal shows a significant activity against B. cereus and L. monocytogenes, the MIC values are both 7.8 μg/ml\(^1\).
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo
Nonanal shows a significant inhibitory effect on mice with diarrhoea induced with castor oil\(^1\).
MCE has not independently confirmed the accuracy of these methods. They are for reference only.
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