Meta-Topolin

Cat. No.: HY-112104
CAS No.: 75737-38-1
Molecular Formula: C₁₂H₁₁N₅O
Molecular Weight: 241.25
Target: Others
Pathway: Others
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 : ≥ 60 mg/mL (248.70 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

<table>
<thead>
<tr>
<th>Concentration</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>4.1451 mL</td>
<td>20.7254 mL</td>
<td>41.4508 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.8290 mL</td>
<td>4.1451 mL</td>
<td>8.2902 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.4145 mL</td>
<td>2.0725 mL</td>
<td>4.1451 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 (10.36 mM); Clear solution
2. Add each solvent one by one: 10% DMSO > 90% corn oil
   Solubility: ≥ 2.5 mg/mL (10.36 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
Meta-Topolin (m-Topolin) is a highly active aromatic cytokinin.

In Vitro
Meta-Topolin is first isolated from poplar leaves. Meta-Topolin is a natural constituent of plant tissues, together with its 9-β-D-ribofuranosyl and 9-β-D-glucopyranosyl derivatives. Meta-topolin is more active than zeatin and benzyladenine in the promotion of shoot formation in plant tissue cultures[1]. In Spathiphyllum floribundum, shoot production in media with BAP and meta-topolin is very similar[2].
REFERENCES


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

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