AB-MECA

Cat. No.: HY-19365
CAS No.: 152918-26-8
Molecular Formula: C₁₈H₂₁N₇O₄
Molecular Weight: 399.4
Target: Adenosine Receptor
Pathway: GPCR/G Protein
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: 55 mg/mL (137.71 mM; Need ultrasonic)

Preparing Stock Solutions

<table>
<thead>
<tr>
<th>Solvent Concentration</th>
<th>Mass 1 mg</th>
<th>Mass 5 mg</th>
<th>Mass 10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>2.5038 mL</td>
<td>12.5188 mL</td>
<td>25.0376 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.5008 mL</td>
<td>2.5038 mL</td>
<td>5.0075 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.2504 mL</td>
<td>1.2519 mL</td>
<td>2.5038 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: ≥ 2.75 mg/mL (6.89 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.75 mg/mL (6.89 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.75 mg/mL (6.89 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
AB-MECA is a high affinity A3 adenosine receptor agonist, has high affinity for recombinant A1 and A3 receptors.

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

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