BQ-123

Cat. No.: HY-12378
CAS No.: 136553-81-6
Molecular Formula: \( C_{31}H_{42}N_6O_7 \)
Molecular Weight: 610.7
Target: Endothelin 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

<table>
<thead>
<tr>
<th>Solvent</th>
<th>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>1.6375 mL</td>
<td>8.1873 mL</td>
<td>16.3747 mL</td>
</tr>
<tr>
<td></td>
<td>5 mM</td>
<td>0.3275 mL</td>
<td>1.6375 mL</td>
<td>3.2749 mL</td>
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<tr>
<td></td>
<td>10 mM</td>
<td>0.1637 mL</td>
<td>0.8187 mL</td>
<td>1.6375 mL</td>
</tr>
</tbody>
</table>

In Vitro DMSO : ≥ 34 mg/mL (55.67 mM)
* “≥” means soluble, but saturation unknown.

Preparing Stock Solutions

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

BIOLOGICAL ACTIVITY

Description
BQ-123 is an ETA endothelin receptor antagonist (Ki values are 1.4 and 1500 nM at ETA and ETB receptors respectively). 1) Reduces ischemia-induced ventricular arrhythmias in a rat model. 2) BQ-123 prevents LPS-induced preterm birth in mice via the induction of uterine and placental IL-10. 3) The reference for animal injections is 6.7 mg/kg. 4) BQ-123 decreased IL-1β and TNFα in the placenta while also decreasing transcription of ET-1 in the uterus.

REFERENCES