CycLuc1

Cat. No.: HY-111653
CAS No.: 1247879-16-8
Molecular Formula: C₁₃H₁₁N₃O₂S₂
Molecular Weight: 305.38
Target: Reactive Oxygen Species
Pathway: Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB
Storage: 4°C, protect from light
* In solvent: -80°C, 6 months; -20°C, 1 month (protect from light)

SOLVENT & SOLUBILITY

In Vitro

DMSO: ≥ 83.33 mg/mL (272.87 mM)
* "≥" means soluble, but saturation unknown.

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<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></td>
<td>3.2746 mL</td>
<td>16.3730 mL</td>
<td>32.7461 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td></td>
<td>0.6549 mL</td>
<td>3.2746 mL</td>
<td>6.5492 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td></td>
<td>0.3275 mL</td>
<td>1.6373 mL</td>
<td>3.2746 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: ≥ 2.08 mg/mL (6.81 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (6.81 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
CycLuc1 is a brain penetrant luciferase substrate.

IC₅₀ & Target
Luciferase[^1]

REFERENCES

[^1]: Shiv K, et al. Abstract 4112: Synthetic luciferin, CycLuc1, improves bioluminescence imaging for intracranial glioblastoma xenografts. 10.1158/1538-7445.AM2018-4112
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