TTK21

Cat. No.: HY-116673
CAS No.: 709676-56-2
Molecular Formula: \(\text{C}_{17}\text{H}_{15}\text{ClF}_{3}\text{NO}_{2}\)
Molecular Weight: 357.75
Target: Histone Acetyltransferase
Pathway: Epigenetics
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: 100 mg/mL (279.52 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions

<table>
<thead>
<tr>
<th>Solvent Concentration</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>2.7952 mL</td>
<td>13.9762 mL</td>
<td>27.9525 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.5590 mL</td>
<td>2.7952 mL</td>
<td>5.5905 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.2795 mL</td>
<td>1.3976 mL</td>
<td>2.7952 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 >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (6.99 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
TTK21 is an activator of the histone acetyltransferases CBP/p300. TTK21 passes the blood–brain barrier, induces no toxicity, and reaches different parts of the brain when conjugated to glucose-based carbon nanosphere (CSP). TTK21 has beneficial implications for the brain functions of adult neurogenesis and long-term memory[1].

IC₅₀ & Target
CBP p300

REFERENCES
