KML29

Cat. No.: HY-18977
CAS No.: 1380424-42-9
Molecular Formula: C$_{24}$H$_{21}$F$_{6}$NO$_{7}$
Molecular Weight: 549.42
Target: MAGL
Pathway: Metabolic Enzyme/Protease
Storage:
- Powder: -20°C for 3 years, 4°C for 2 years
- In solvent: -80°C for 6 months, -20°C for 1 month

Solvent & Solubility

In Vitro
10 mM in DMSO

Preparing Stock Solutions

<table>
<thead>
<tr>
<th>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>1.8201 mL</td>
<td>9.1005 mL</td>
<td>18.2010 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.3640 mL</td>
<td>1.8201 mL</td>
<td>3.6402 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.1820 mL</td>
<td>0.9101 mL</td>
<td>1.8201 mL</td>
</tr>
</tbody>
</table>

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

BIOLOGICAL ACTIVITY

Description
KML29 is a potent and selective MAGL inhibitor with IC50 = 5.9, 15, and 43 nM in human, mouse, and rat brain proteomes, respectively. IC50 value: 15, 43, and 5.9 nM (mouse, rat, and human brain proteomes). Target: MAGL

In vitro: KML29 potently and selectively inhibits MAGL with minimal cross-reactivity toward other central and peripheral serine hydrolases, including no detectable activity against FAAH. [1] In vivo: KML29 a potentially very useful tool to explore the consequences of inhibiting MAGL in the whole animal and in multiple species, and provides greater selectivity than JZL184 in inhibiting MAGL. [2]

REFERENCES