LLY-283

Cat. No.: HY-107777  
CAS No.: 2040291-27-6  
Molecular Formula: C₁₇H₁₈N₄O₄  
Molecular Weight: 342.35  
Target: Histone Methyltransferase  
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: 250 mg/mL (730.25 mM; Need ultrasonic)

<table>
<thead>
<tr>
<th>Solvent Concentration</th>
<th>Mass</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>2.9210 mL</td>
<td>14.6049 mL</td>
<td>29.2099 mL</td>
<td></td>
</tr>
<tr>
<td>5 mM</td>
<td>0.5842 mL</td>
<td>2.9210 mL</td>
<td>5.8420 mL</td>
<td></td>
</tr>
<tr>
<td>10 mM</td>
<td>0.2921 mL</td>
<td>1.4605 mL</td>
<td>2.9210 mL</td>
<td></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 (6.08 mM); Clear solution  
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
   Solubility: ≥ 2.08 mg/mL (6.08 mM); Clear solution  
3. Add each solvent one by one: 10% DMSO >> 90% corn oil  
   Solubility: ≥ 2.08 mg/mL (6.08 mM); Clear solution

BIOLOGICAL ACTIVITY

Description  
LLY-283 is a potent, selective and oral protein arginine methyltransferase 5 (PRMT5) inhibitor, with an IC₅₀ of 22 nM and a Kᵯ of 6 nM for PRMT5:MEP50 complex, and shows antitumor activity.

IC₅₀ & Target  
IC₅₀: 22 nM (PRMT5:MEP50)[¹]  
Kᵯ: 6 nM (PRMT5:MEP50)[¹]

In Vitro  
LLY-283 is a potent, oral and selective arginine methyltransferase 5 (PRMT5) inhibitor, with an IC₅₀ of 22 nM in vitro and 25
nM in cells, as well as a $K_d$ of 6 nM for PRMT5:MEP50 complex in vitro; LLY-283 inhibits the proliferation of A375 cell with an IC$_{50}$ of 46 nM$[^1]$. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

| In Vivo      | LLY-283 (20 mg/kg; p.o., QD (once a day)) causes a significant inhibition on tumor growth in mice bearing A375 cells after treatment for 28 days$[^1]$. MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

REFERENCES


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