CPI-637

Cat. No.: HY-100482
CAS No.: 1884712-47-3
Molecular Formula: C₂₂H₂₂N₆O
Molecular Weight: 386.45
Target: Epigenetic Reader Domain; Histone Acetyltransferase
Pathway: Epigenetics
Storage: Powder -20°C 3 years
             4°C  2 years
             In solvent -80°C 2 years
                      -20°C 1 year

SOLVENT & SOLUBILITY

In Vitro

DMSO : 9.62 mg/mL (24.89 mM; Need ultrasonic)

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent</th>
<th>Mass</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Concentration</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 mM</td>
<td></td>
<td></td>
<td>2.5877 mL</td>
<td>12.9383 mL</td>
<td>25.8766 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td></td>
<td></td>
<td>0.5175 mL</td>
<td>2.5877 mL</td>
<td>5.1753 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td></td>
<td></td>
<td>0.2588 mL</td>
<td>1.2938 mL</td>
<td>2.5877 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: ≥ 0.96 mg/mL (2.48 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 0.96 mg/mL (2.48 mM); Suspended solution; Need ultrasonic
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 0.96 mg/mL (2.48 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
CPI-637 is a selective and potent CBP/EP300 bromodomain inhibitor with IC₅₀ values of 0.03 μM, 0.051 μM and 11.0 μM for CBP, EP300 and BRD4 BD-1, respectively, and an EC₅₀ of 0.3 μM for CBP[1].

IC₅₀ & Target
BRD4 BD1
11 μM (IC₅₀)

In Vitro
CPI-637 (Compound 28) inhibits MYC expression in AMO-1 cells (EC₅₀ value of 0.60 μM)[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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**CUSTOMER VALIDATION**

- Am J Pathol. 2021 Mar 8;S0002-9440(21)00084-5.

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**REFERENCES**


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Caution: Product has not been fully validated for medical applications. For research use only.

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