ASTX660

Cat. No.: HY-109565
CAS No.: 1799328-86-1
Molecular Formula: C₃₀H₄₂FN₅O₃
Molecular Weight: 539.68
Target: IAP
Pathway: Apoptosis
Storage:
- Powder: -20°C 3 years, 4°C 2 years
- In solvent: -80°C 6 months, -20°C 1 month

SOLVENT & SOLUBILITY

In Vitro
Methanol: 250 mg/mL (463.24 mM; Need ultrasonic)
DMSO: 100 mg/mL (185.29 mM; Need ultrasonic)

Preparing Stock Solutions

<table>
<thead>
<tr>
<th>Solvent</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>1.8529 mL</td>
<td>9.2647 mL</td>
<td>18.5295 mL</td>
<td></td>
</tr>
<tr>
<td>5 mM</td>
<td>0.3706 mL</td>
<td>1.8529 mL</td>
<td>3.7059 mL</td>
<td></td>
</tr>
<tr>
<td>10 mM</td>
<td>0.1853 mL</td>
<td>0.9265 mL</td>
<td>1.8529 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: ≥ 2.5 mg/mL (4.63 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (4.63 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (4.63 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
ASTX660 is an orally bioavailable dual antagonist of cellular inhibitor of apoptosis protein (cIAP) and X-linked inhibitor of apoptosis protein (XIAP).

IC₅₀ & Target
cIAP, XIAP[1]

In Vitro
ASTX660 is an orally bioavailable dual antagonist of cIAP and XIAP, currently being investigated in a single-agent Phase 1/2
clinical trial in patients with advanced solid tumors and lymphomas. Twenty-one triple-negative breast cancer (TNBC) cell lines are treated with ASTX660 in vitro and it is found that 43% are sensitive to ASTX660[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

| In Vivo | In HCC1806 xenografts in mice, ASTX660 (daily oral treatment) causes moderate tumor growth inhibition but not regression [1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

Customer Validation


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References