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
DMSO: ≥ 50 mg/mL (92.65 mM)
* "≥" means soluble, but saturation unknown.

<table>
<thead>
<tr>
<th>Solvent</th>
<th>Concentration</th>
<th>Mass for 1 mg</th>
<th>Mass for 5 mg</th>
<th>Mass for 10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 mM</td>
<td>1.8529 mL</td>
<td>9.2647 mL</td>
<td>18.5295 mL</td>
</tr>
<tr>
<td></td>
<td>5 mM</td>
<td>0.3706 mL</td>
<td>1.8529 mL</td>
<td>3.7059 mL</td>
</tr>
<tr>
<td></td>
<td>10 mM</td>
<td>0.1853 mL</td>
<td>0.9265 mL</td>
<td>1.8529 mL</td>
</tr>
</tbody>
</table>

Preparing Stock Solutions:

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

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

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]

### In Vivo
In HCC1806 xenografts in mice, ASTX660 (daily oral treatment) causes moderate tumor growth inhibition but not regression[1].

### REFERENCES