EC330

Cat. No.: HY-100949
CAS No.: 2016795-77-8
Molecular Formula: C₃₀H₃₂F₂O₂
Molecular Weight: 462.57
Target: Others
Pathway: Others
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 : 20 mg/mL (43.24 mM; Need ultrasonic)

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent Concentration</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 mM</td>
<td>2.1618 mL</td>
<td>10.8092 mL</td>
<td>21.6183 mL</td>
</tr>
<tr>
<td></td>
<td>5 mM</td>
<td>0.4324 mL</td>
<td>2.1618 mL</td>
<td>4.3237 mL</td>
</tr>
<tr>
<td></td>
<td>10 mM</td>
<td>0.2162 mL</td>
<td>1.0809 mL</td>
<td>2.1618 mL</td>
</tr>
</tbody>
</table>

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

BIOLOGICAL ACTIVITY

Description
EC330 is a leukemia inhibitory factor (LIF) inhibitor.

In Vitro
EC330 shows marked specificity in MCF-7 cells overexpressing LIF verses MCF-7 cells. EC330 further shows cytoskeletal disruption and targeting cancer-associated fibroblasts (CAFs) through inhibition of alpha-SMA but not beta-tubulin[1].

In Vivo
EC330 treatment (0.1, 0.5 and 2.5 mg/kg) dose dependently reduces tumor burden in ovarian (IGROV-1) and triple negative breast cancer (MDA-MB-231) cell xenografted mouse models as well as MDA-MB-231 PDX models. EC330 exhibits no reactivity towards thiol-cysteine residues, no off target binding to major receptors, kinases or ion channels. EC330 is orally bioavailable and found to be safe and tolerable in toxicity studies[1].

CUSTOMER VALIDATION

Product Data Sheet
Inhibitors • Agonists • Screening Libraries

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REFERENCES


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