HO-3867

Cat. No.: HY-100453
CAS No.: 1172133-28-6
Molecular Formula: C₂₈H₃₀F₂N₂O₂
Molecular Weight: 464.55
Target: STAT
Pathway: JAK/STAT Signaling; Stem Cell/Wnt
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 : ≥ 32 mg/mL (68.88 mM)
* “≥” means soluble, but saturation unknown.

<table>
<thead>
<tr>
<th>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>2.1526 mL</td>
<td>10.7631 mL</td>
<td>21.5262 mL</td>
<td></td>
</tr>
<tr>
<td>5 mM</td>
<td>0.4305 mL</td>
<td>2.1526 mL</td>
<td>4.3052 mL</td>
<td></td>
</tr>
<tr>
<td>10 mM</td>
<td>0.2153 mL</td>
<td>1.0763 mL</td>
<td>2.1526 mL</td>
<td></td>
</tr>
</tbody>
</table>

Preparing Stock Solutions

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

BIOLOGICAL ACTIVITY

Description
HO-3867 is a selective and potent STAT3 inhibitor and shows good antitumor activity.

In Vitro
HO-3867 exhibit minimal toxicity toward noncancerous cells and tissues but induce apoptosis in ovarian cancer cells. HO-3867 inhibit cell migration/invasion and survival by inhibiting STAT3 phosphorylation[1]. BRCA-mutated ovarian cancer cells treated with HO-3867 exhibited a significant degree of apoptosis with elevated levels of cleaved caspase-3, caspase-7 and PARP[2]. HO-3867 shows good antitumor activity at the concentration of 2 μmol/L in PANC-1 and BXPC-3 cells. Importantly, it is also found that HO-3867 treatment significantly induced reactive oxygen species (ROS) production in human pancreatic cancer cell lines, inducing PANC-1 and BXPC-3 cells[3].
REFERENCES


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