SC144

Cat. No.: HY-15614
CAS No.: 895158-95-9
Molecular Formula: C₁₆H₁₁FN₆O
Molecular Weight: 322.3
Target: Interleukin Related
Pathway: Immunology/Inflammation
Storage: Powder -20°C 3 years
4°C 2 years
In solvent -80°C 6 months
-20°C 1 month

Solvent & Solubility

In Vitro

<table>
<thead>
<tr>
<th></th>
<th>Solvent</th>
<th>Concentration</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preparing Stock Solutions</td>
<td>DMSO : 19.5 mg/mL (60.50 mM; Need ultrasonic and warming)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Solvent</td>
<td>Mass</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 mM</td>
<td></td>
<td>3.1027 mL</td>
<td>15.5135 mL</td>
<td>31.0270 mL</td>
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</tr>
<tr>
<td>5 mM</td>
<td></td>
<td>0.6205 mL</td>
<td>3.1027 mL</td>
<td>6.2054 mL</td>
<td></td>
</tr>
<tr>
<td>10 mM</td>
<td></td>
<td>0.3103 mL</td>
<td>1.5513 mL</td>
<td>3.1027 mL</td>
<td></td>
</tr>
</tbody>
</table>

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

BIOLOGICAL ACTIVITY

Description

SC144 is the first-in-class orally active small-molecule gp130 inhibitor; inhibits cell growth in a panel of human ovarian cancer cell lines with IC50 values in a submicromolar range.IC50 value: < 1 uM (Cell assay) [1]Target: gp130 inhibitor SC144 shows greater potency in human ovarian cancer cell lines than in normal epithelial cells. SC144 binds gp130, induces gp130 phosphorylation (S782) and deglycosylation, abrogates Stat3 phosphorylation and nuclear translocation, and further inhibits the expression of downstream target genes. In addition, SC144 shows potent inhibition of gp130 ligand-triggered signaling. Oral administration of SC144 delays tumor growth in a mouse xenograft model of human ovarian cancer without significant toxicity to normal tissues.

REFERENCES

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

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