HSP27 inhibitor J2

Cat. No.: HY-124653
CAS No.: 2133499-85-9
Molecular Formula: C\textsubscript{13}H\textsubscript{12}O\textsubscript{4}S
Molecular Weight: 264.3
Target: HSP
Pathway: Cell Cycle/DNA Damage; Metabolic Enzyme/Protease
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: 25 mg/mL (94.59 mM; Need ultrasonic)

<table>
<thead>
<tr>
<th>Concentration</th>
<th>Mass (1 mg)</th>
<th>Mass (5 mg)</th>
<th>Mass (10 mg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>3.7836 mL</td>
<td>18.9179 mL</td>
<td>37.8358 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.7567 mL</td>
<td>3.7836 mL</td>
<td>7.5672 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.3784 mL</td>
<td>1.8918 mL</td>
<td>3.7836 mL</td>
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</tbody>
</table>

Preparing Stock Solutions

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

In Vivo
Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (9.46 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
HSP27 inhibitor J2 (J2) is a HSP27 inhibitor, which significantly induces abnormal HSP27 dimer formation and inhibits a production of HSP27 giant polymers, thereby having an effect of inhibiting a chaperone function of the HSP27 and reducing a cell protection function thereof. HSP27 inhibitor J2 (J2) remarkably enhances the antiproliferative activity of 17-AAG and sensitizes cisplatin-induced lung cancer cell growth inhibition[1][2].

IC\textsubscript{50} & Target
HSP27[2]

REFERENCES

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

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