Cinobufagin

Cat. No.: HY-N0421
CAS No.: 470-37-1
Molecular Formula: C_{26}H_{34}O_{6}
Molecular Weight: 442.54
Target: Autophagy
Pathway: Autophagy
Storage: Powder -20°C 3 years
4°C 2 years
In solvent -80°C 6 months
-20°C 1 month

Solvent & Solubility

<table>
<thead>
<tr>
<th>Solvent</th>
<th>Concentration</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMSO</td>
<td>≥ 43 mg/mL (97.17 mM)</td>
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</tbody>
</table>

* “≥” means soluble, but saturation unknown.

Preparation of Stock Solutions

- 1 mM: 2.2597 mL
- 5 mM: 0.4519 mL
- 10 mM: 0.2260 mL

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

BIOLOGICAL ACTIVITY

Description

Cinobufagin, a kind of Chinese materia medica with antitumor effect, is widely used in clinical practice, especially in anti-liver cancer. IC50 value: Target In vitro: Cinobufagin inhibited proliferation of cancer cells at doses of 0.1, 1, or 10 μM after 2–4 days of culture. Cytotoxicity of cinobufagin on the DU145 and LNCaP cells was dose-dependent. Cinobufagin increased [Ca2+]i and apoptosis in cancer cells after a 24-hr culture as well as caspase 3 activities in DU145 and PC3 cells and caspase 9 activities in LNCaP cells [1]. Cinobufagin suppresses cell proliferation and causes apoptosis in prostate cancer cells via a sequence of apoptotic modulators, including Bax, cytochrome c and caspases [2].

In vivo:

REFERENCES


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