Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

Cinobufotalin

Catalog No: tcsc3698

Available Sizes

Size: 5mg

Size: 10mg

Specifications

CAS No:
1108-68-5

Formula:
$C_{26}H_{34}O_7$

Pathway:
Others

Target:
Others

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 35 mg/mL (76.33 mM)

Observed Molecular Weight:
458.54

Product Description

Cinobufotalin is one of the bufadienolides prepared from toad venom; has anticancer activity.

IC50 value:

Target:

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in vitro: Cinobufotalin(CB) caused significant DNA fragmentation, decrease of MMP, and an increase in the intracellular Ca(2+) ion and ROS production. In addition, CB induced upregulation of Fas protein, proteolytic activation of cytochrome c, caspase-2, -3, -8 and -9 together with the activation of Bid and Bax [1]. cinobufotalin displayed considerable cytotoxicity against lung cancer cells (A549, H460 and HTB-58 lines) without inducing significant cell apoptosis. cinobufotalin mainly induces Cyp-D-dependent non-apoptotic death in cultured lung cancer cells [2]. cinobufotalin (at nmol/L) significantly inhibited HCC cell growth and survival while inducing considerable cell apoptosis. Further, cinobufotalin inhibited sphingosine kinase 1 (SphK1) activity and induced pro-apoptotic ceramide production. cinobufotalin inactivated Akt-S6K1 signaling in HepG2 cells, which was again inhibited by ceramide synthase-1 shRNA-depletion [3].

in vivo: Using a mice xenograft model, we found that cinobufotalin inhibited A549 lung cancer cell growth in vivo [2].