

# 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 :  $\geq 35$  mg/mL (76.33 mM)

**Observed Molecular Weight:**

458.54

## Product Description

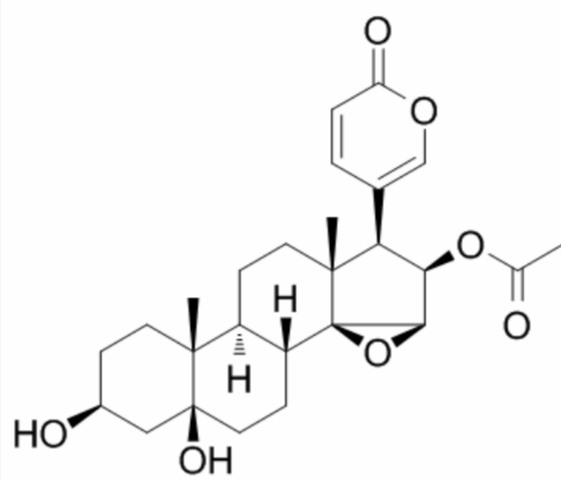
Cinobufotalin is one of the bufadienolides prepared from toad venom; has anticancer activity.

IC50 value:

Target:

in vitro: Cinobufotalin(CB) caused significant DNA fragmentation, decrease of MMP, and an increase in the intracellular Ca<sup>2+</sup> 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].



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