

Product Name : Cinobufotalin

Synonyms : —

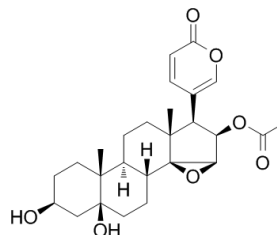
Cat No. : M23309

CAS Number : 1108-68-5

Molecular Formula : C₂₆H₃₄O₇

Formula Weight : 458.5

Chemical Name : —



Description : Cinobufotalin is a main cardiac toxin in toad, it is a novel anti-HCC agent, it induces growth inhibition and apoptosis in cultured HCC cells through ceramide production. Cinobufotalin is also an effective reversal agent for the multidrug resistance of tumors, it can reverse the adriamycin-resistance in Raji/ADR cells and the expression of P-gp and MRP-1 proteins. Cinobufotalin can promote the dendritic cells (DCs) derived from peripheral blood of patients with chronic hepatitis B to mature and effectively enhance its (the DCs') capabilities, therefore the treatment of cinobufotalin may potentiate the antiviral immunity of the patients with chronic hepatitis B (CHB).

Pathway : Cytoskeleton/Cell Adhesion Molecules

Target : Akt

Receptor : Akt; IL Receptor; MRP1; P-gp

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

SMILES : CC(=O)O[C@H]1[C@@H]2[C@@H](C=C1)C(=O)C[C@H]2OC(C)=O(C)[C@H]3[C@@H](C)[C@H]4[C@@H](C)[C@H](C)[C@H]5[C@@H](O)[C@H]3CC[C@H](O)C5)C[C@H]6[C@@H](C)[C@H]2O6

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Ceramide production mediates cinobufotalin-induced growth inhibition and apoptosis in cultured hepatocellular carcinoma cells. Tumour Biol. 2015 Feb 28.