

Gamabufotalin

Catalog No: tcsc3701



Available Sizes

Size: 5mg

Size: 10mg



Specifications

CAS No:

465-11-2

Formula:

$C_{24}H_{34}O_5$

Pathway:

Others

Target:

Others

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Alternative Names:

Gamabufagin

Observed Molecular Weight:

402.52

Product Description

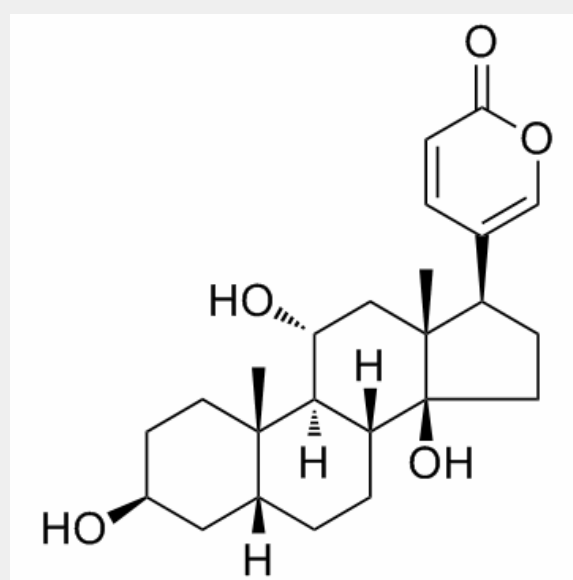
Gamabufotalin (Gamabufagin), a major bufadienolide of Chansu, has been used for cancer therapy due to its desirable metabolic stability and less adverse effect.

IC50 value:

Target:

in vitro: Gamabufotalin (CS-6) strongly suppressed COX-2 expression by inhibiting the phosphorylation of IKK β via targeting the ATP-binding site, thereby abrogating NF- κ B binding and p300 recruitment to COX-2 promoter. In addition, CS-6 induced apoptosis by activating the cytochrome c and caspase-dependent apoptotic pathway [1]. Gamabufotalin significantly potentiated human breast cancer cells with different status of ER- α to apoptosis induction of TRAIL, as evidenced by enhanced Annexin V/FITC positive cells (apoptotic cells), cytoplasmic histone-associated-DNA-fragments, membrane permeability transition (MPT), caspases activation and PARP cleavage [2].

in vivo: CS-6 markedly down-regulated the protein levels of COX-2 and phosphorylated p65 NF- κ B in tumor tissues of the xenograft mice, and inhibited tumor weight and size [1].



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