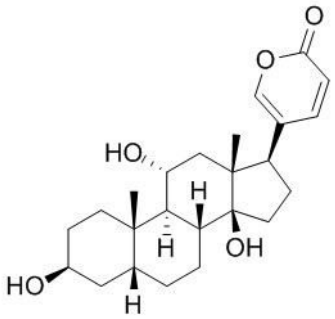
Natural Products

ChemFaces

Gamabufotalin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]



Name: Gamabufotalin

Catalog No.: CFN90212

Cas No.: 465-11-2

Purity: > 98%

M.F: C24H34O5

M.W: 402.52

Physical Description: Powder

Synonyms: 22-dienolide,3,11,14-trihydroxy-,(3-beta,5-beta,11-alpha)-bufa-2; 3,11,14-Trihydroxybufa-20,22-dienolide;3-beta,11-alpha,14-Trihydroxy-5-beta-bufa-20,22-dienolide.

[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Food and cosmetic research;
4. Synthetic precursor compounds;
5. Others.

[Source]

The secretion of *Bufo vulgaris formosus.*

[Biological Activity or Inhibitors]

Gamabufotalin(CS-6), a bufadienolide compound from toad venom, suppresses COX-2 expression through targeting IKKβ/NF-κB signaling pathway in lung cancer cells, suggests that CS-6 exhibits potential use in the treatment of COX-2-mediated diseases such as lung cancer.[1]

Gamabufotalin has been shown to strongly inhibit cancer cell growth and inflammatory response, CS-6 inhibits angiogenesis by inhibiting the activation of VEGFR-2 signaling pathways and CS-6 could be a potential candidate in angiogenesis-related disease therapy.[2]

Gamabufotalin triggers c-Myc degradation via induction of WWP2 in multiple myeloma(MM) cells, it may be as a promising therapeutic agent in the treatment of MM.[3]

[Solvent]

Chloroform, Dichloromethane, Ethyl Acetate, DMSO.

[HPLC Method][4]

Mobile phase: Acetonitrile- 0.3% Aqueous acetic acid, gradient elution ;

Flow rate: 0.8 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 296 nm.

[Storage]

2-8℃, Protected from air and light, refrigerate or freeze.

[References]

[1] Yu Z, Guo W, Ma X, *et al. Mol. Cancer, 2014, 13(1):1-14.*

[2] Tang N, Shi L, Yu Z, *et al. Oncotarget, 2015, 7(3):3533-47.*

[3] Yu Z, Li T, Wang C, *et al. Oncotarget, 2016, 7(13):15725-37.*

[4] Ma X C, Zhang B J, Xin X L*, et al. Nat. Prod. Commun., 2009, 4(4):179-84.*

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