Natural Products

ChemFaces

Bufarenogin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Bufarenogin

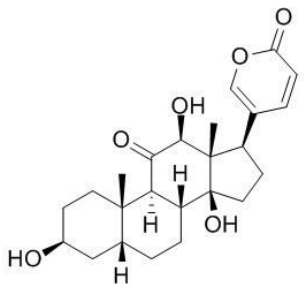
Catalog No.: CFN90151

Cas No.: 17008-65-0

Purity: >=98%

M.F: $C_{24}H_{32}O_6$

M.W: 416.51



Physical Description: Powder

Synonyms: 3β,12β,14-Trihydroxy-11-oxo-5β-bufa-20,22-dienolide.

[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Synthetic precursor compounds;
4. Intermediates & Fine Chemicals;
5. Others.

[Source]

The glandular body of *Bufo bufo gargarizans Cantor.*

[Biological Activity or Inhibitors]

psi-Bufarenogin, a novel active compound that isolated from the extract of toad skin, it

suppresses hepatocellular carcinoma (HCC) growth via inhibiting, at least partially, receptor tyrosine kinases-regulated signaling, suggests that it exhibits potent therapeutic effect in xenografted human hepatoma.[1]

ψ-Bufarenogin has inhibitory activity on human kidney Na(+)/K(+)-ATPase.[2]

ψ-Bufarenogin has cytotoxicity against HepG2 and MCF-7 human cancer cells.[3]

[Solvent]

Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

[HPLC Method][2]

Mobile phase: 0.1% Trifluoroaceticacid - Acetonitrile,gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature:Room Temperature;

The wave length of determination: 300 nm.

[Storage]

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

[References]

[1] Ding J, Wen W, Xiang D, *et al. Oncotarget, 2015, 6(13):11627-39.*

[2] Perera Córdova W H, Leitão S G, Cunha-Filho G, *et al. Toxicon, 2015, 10:27-34.*

[3] Zhang X, Ye M, Dong Y H, *et al. Biocatalysis, 2011, 29(2-3):96-101.*

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