

Bufalin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Bufalin

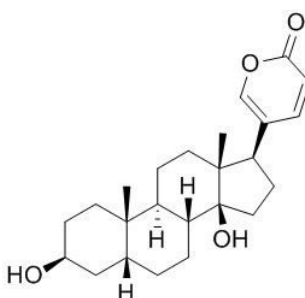
Catalog No.: CFN99947

Cas No.: 465-21-4

Purity: >=98%

M.F: C₂₄H₃₄O₄

M.W: 386.52



Physical Description: White powder

Synonyms: 22-dienolide, 3,14-dihydroxy-, (3-beta,5-beta)-bufa-2; 22-dienolide, 3-beta,14-dihydroxy-5-beta-bufa-2.

[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]

Bufalin, an active principle of Chinese medicine, *chan'su*, it can induce typical apoptosis in human leukemia U937 cells, a pathway with the persistent activation of MAP kinase in U937 cells in response to bufalin is at least one of the signal transduction pathways involved in the induction of apoptosis. ^[1]

Bufalin and cinobufagin may inhibit the proliferation of prostate cancer cell lines associated with sustained elevation of the $[Ca^{2+}]_i$ and that of apoptosis.^[2]

Bufalin is a potent small-molecule inhibitor of the steroid receptor coactivators steroid receptor coactivator (SRC)-3 and SRC-1, it as a potentially broad-spectrum small-molecule inhibitor for cancer.^[3]

[Solvent]

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

[HPLC Method]^[4]

Mobile phase: Methanol -H₂O=70:30 ;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 298 nm.

[Storage]

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

[References]

[1] Watabe M, Masuda Y, Nakajo S, *et al. J. Biol. Chem.*, 1996, 271(24):14067-72.

[2] Yeh J Y, Huang W J, Kan S F, *et al. Prostate*, 2003, 54(2):112-24.

[3] Wang Y, Lonard D M, Yu Y, *et al. Cancer Res.*, 2014, 74(5):1506-17.

[4] Li Z, Xue B, Qi G, *et al. Chinese Journal of Pharmaceutical Analysis*, 2004(5):523-5.

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