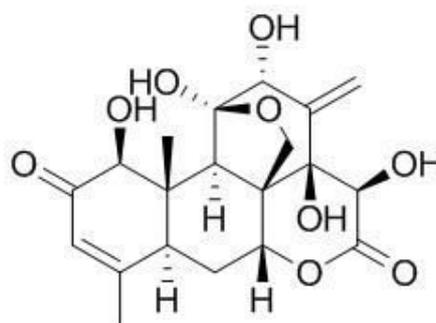


Eurycomanone Datasheet

4th Edition (Revised in July, 2016)**[Product Information]****Name:** Eurycomanone**Catalog No.:** CFN92008**Cas No.:** 84633-29-4**Purity:** > 98%**M.F:** C₂₀H₂₄O₉**M.W:** 408.4**Physical Description:** Cryst.**Synonyms:** (1β,8ξ,11β,12α,15β)-1,11,12,14,15-pentahydroxy-11,20-epoxy picrasa-3,13(21)-diene-2,16-dione.**[Intended Use]**

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

[Source]The roots of *Eurycoma longifolia*.

[Biological Activity or Inhibitors]

Eurycomanone has cytotoxic on HepG2 cells and Human Cervical Carcinoma Cells by inducing apoptosis through the up-regulation of p53 and Bax, and down-regulation of Bcl-2.^[1,2]

Eurycomanone exerts antiproliferative activity via apoptosis in Hela cells and MCF-7 cells .^[3,4]

Eurycomanone at viable therapeutic concentrations of 5–20µg/ml exhibits significant anti-proliferative and anti-clonogenic cell growth effects on A549 lung cancer cells, the treatment also resulted in suppression of the lung cancer cell tumor markers and several known cancer cell growth-associated genes.^[5]

Eurycomanone enhances testosterone steroidogenesis at the Leydig cells by inhibiting aromatase conversion of testosterone to oestrogen, and at a high concentration may also involve phosphodiesterase inhibition, it may be worthy for further development as a phytomedicine to treat testosterone-deficient idiopathic male infertility and sterility.^[6]

Eurycomanone and eurycomanol as regulators of signaling pathways involved in proliferation, cell death and inflammation.^[7]

Eurycomanone possesses growth inhibition of P.berghei by combination of eurycomanone-artesunate with doses 30 mg/kgBW-artesunate 4mg/kgBW, suggests that this combination can be used as potential antimalarial drug.^[8]

[Solvent]

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

[HPLC Method]^[9]

Mobile phase: Acetonitrile- 0.1% Fomic acid H₂O, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 254 nm.

[Storage]

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

[References]

- [1] Zakaria Y, Rahmat A, Pihie A H L, *et al. Cancer Cell. Int.*, 2009, 9(1):1-21.
- [2] Mahfudh N, Pihie A H L. *J Cancer Mol*, 2008, 4(4):109-15.
- [3] Nurkhasanah, Azimahtol Hawariah Lope Pihie, Jalifah Latip. *Majalah Farmasi Indonesia*, 2009, 20(4): 190-7.
- [4] Pihie A H L. *Anticancer Res*, 2004, 24(5D):3426-7.
- [5] Wong P F, Cheong W F, Shu M H, *et al. Phytomedicine*, 2012, 19(2):138-44.
- [6] Low B S, Choi S B, Wahab H A, *et al. J. Ethnopharmacol.*, 2013, 149(1):201-7.
- [7] Hajjouli S, Chateauvieux S, Teiten M H, *et al. Molecules*, 2014, 19(9):14649-66.
- [8] Yusuf H, Satria D. *J Chem. Pharm. Res.*, 2016,(82):18-22.
- [9] Khari N, Aisha A, Ismail Z. *Trop. J. Pharm. Res.*, 2014, 13(5):801-7.

[Contact]

Address:

S5-3 Building, No. 111, Dongfeng Rd.,
Wuhan Economic and Technological Development Zone,
Wuhan, Hubei 430056,
China

Email: info@chemfaces.com

Tel: +86-27-84237783

Fax: +86-27-84254680

Web: www.chemfaces.com

Tech Support: service@chemfaces.com