

Rocaglaol Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Rocaglaol

Catalog No.: CFN99609

Cas No.: 147059-46-9

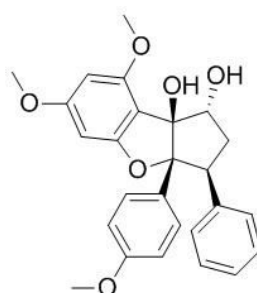
Purity: > 95%

M.F: C₂₆H₂₆O₆

M.W: 434.5

Physical Description: Powder

Synonyms:



[Intended Use]

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

[Source]

The herbs of *Aglaia odorata* Lour.

[Biological Activity or Inhibitors]

Rocaglaol is a cytotoxic cyclopenta[b]benzofuran isolated from the bark of *Aglaia*

crassinervia, it exhibits in vitro cytotoxic activity against Lu1, LNCaP and MCF-7 cells with ED50 values of 13.8, 23.0 and 9.2 nM, respectively; suggests that rocaglaol is a potent anticancer drug that induces apoptosis of LNCaP cells through the mitochondrial pathway and its G2/M-phase cell cycle arrest is associated with the down-regulation of Cdc25C and the dephosphorylation of Cdc2.^[1]

Rocaglaol can reduce tissue inflammation and neuronal cell death by inhibiting NF-kappa B and AP-1 signaling, resulting in significant neuroprotection in animal models of neurodegeneration.^[2]

Rocaglaol derivatives can prevent or to limit the cardiotoxicity of an antineoplastic agent, in particular to prevent or to limit the apoptosis of cardiomyocytes induced by such agent.^[3]

Rocaglaol, pyrimidinone and aglaiaastatin are potent inhibitors of the growth of K--cells, with IC50 values of 1-10 ng/mL, and induce normal morphology in K--cells at 10-30 ng/mL, they also specifically inhibit protein synthesis.^[4]

[Solvent]

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

[HPLC Method]

Not data available.

[Storage]

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

[References]

[1] Mi Q, Su B H, Cordell G A, *et al. Anticancer Res.*, 2006, 26(2A):947-52.

[2] Fahrig T, Gerlach I, Horváth E. *Mol.Pharmacol.*, 2005, 67(5):1544-55.

[3] Guele D L G C T. *US 20120101153 A1[P]*. 2012.

[4] Ohse T, Ohba S, Yamamoto T, *et al. J. Nat. Prod.*, 1996, 59(7):650-2.

[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