

Britannin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Britannin

Catalog No.: CFN90220

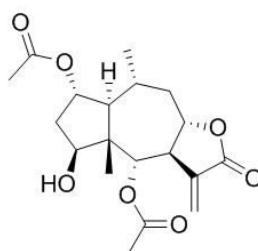
Cas No.: 33627-28-0

Purity: >=98%

M.F: C₁₉H₂₆O₇

M.W: 366.41

Physical Description: Powder



Synonyms: (3aR)-3a α ,4,4a,5,6,7,7a α ,8,9,9a β -Decahydro-4 α ,7 β -diacetoxy-5 β -hydroxy-4a β ,8 α -dimethyl-3-methyleneazuleno[6,5-b]furan-2(3H)-one;
6-O-Acetyl-4-O-deacetylinuchinenolide C.

[Intended Use]

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

[Source]

The herbs of *Inula japonica* Thunb.

[Biological Activity or Inhibitors]

Britannin has strong cytotoxicity to HepG-2, MCF-7, MDBK and A-549 cells (IC₅₀: 2.2, 5.9, 5.4, and 3.5 microg/mL, respectively).^[1]

Britannin inhibits growth of MCF-7 and MDA-MB-468 breast cancer cells through the activation of the mitochondrial apoptotic pathway and may potentially serve as an agent for breast cancer therapy.^[2]

[Solvent]

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

[HPLC Method]^[3]

HPLC-ELSD

Mobile phase: Acetonitrile- H₂O, gradient elution;

Flow rate: 0.8 ml/min;

Column temperature: 30 °C;

Drift tube temperature: 100 °C;

Flow rate of gas : 2.8L/min;

Carrier gas: N₂.

[Storage]

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

[References]

[1] Moghadam M H, Hajimehdipoor H, Saeidnia S, *et al. Nat. Prod. Commun.*, 2012, 7(8):979-80.

[2] Hamzeloo-Moghadam M, Aghaei M, Fallahian F, *et al. Tumour Biology the Journal of the International Society for Oncodevelopmental Biology & Medicine*, 2015, 36(2):1191-8.

[3] Dong Z Q, Chen X, Gao J, *et al. China Pharmacist*, 2012, 15 (4): 443-5.

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