Natural Products

ChemFaces

Sauchinone Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Sauchinone

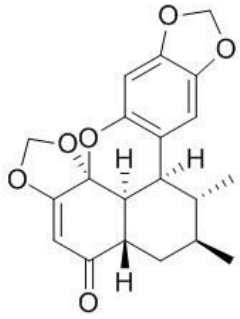
Catalog No.: CFN90153

Cas No.: 177931-17-8

Purity: >=98%

M.F: $C_{20}H_{20}O_6$

M.W: 356.36



Physical Description: Powder

Synonyms:(5aα,7α,8β,8aβ,14aS*,14bβ)-5a,6,7,8,8a,14b-Hexahydro-7,8-dimethyl-5H-benzo[kl]bis[1,3]dioxolo[4,5-b:4′,5′-g]xanthen-5-one.

[Intended Use]

1. Reference standards;

2. Pharmacological research;

3. Synthetic precursor compounds;

4. Intermediates & Fine Chemicals;

5. Others.

[Source]

The herbs of *Saururus chinensis(Lour.) Baill.*

[Biological Activity or Inhibitors]

Sauchinone, a lignan isolated from Saururus chinensis (Saururaceae), is a diastereomeric lignan with cytoprotective and antioxidant activities in cultured hepatocytes; it has inhibition of lipopolysaccharide-inducible nitric oxide synthase, TNF-αand COX-2 expression by sauchinone effects on I-κBαphosphorylation, C/EBP and AP-1 activation .[1]

Sauchinone has been shown to exert potent hepatoprotective, anti-inflammatory and inhibitory effects on bone resorption, it prevents cytokine-induced NO production, iNOS expression,JAK/STAT activation,and NF-κB activation and inhibition of glucose-stimulated insulin secretion (GSIS), suggests that sauchinone can be used for the prevention of functional β-cell damage.[2]

Sauchinone protects the liver from toxicity induced by iron accumulation, and sauchinone's effects may be mediated by LKB1-dependent AMPK activation.[3]

Sauchinone protects C6 glioma cells from ST-induced apoptosis in a caspase-3 dependent manner, our findings may be critical for developing a strategy to protect nerve cells from apoptosis, suggesting the potential development of sauchinone as a neuroprotective agent.[4]

Sauchinone attenuates liver fibrosis and hepatic stellate cell activation through TGF-β/Smad signaling pathway.[5]

[Solvent]

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

[HPLC Method][6]

Mobile phase: Acetonitrile- H2O=60:40 ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 244 nm.

[Storage]

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

[References]

[1] Lee A K, Sang H S, Kim Y C, *et al. Brit. J. Pharmacol., 2003, 139(1):11-20.*

[2] Gil-Saeng Jeong, Dong-Sung Lee, Byung-Hyun Park,*et al. Toxicol. in Vitro, 2011, 25(2):505-12.*

[3] Kim Y W, Lee SMShin S M. *Free Radical Bio. Med., 2009, 47(7):1082-92.*

[4] Song H, Kim Y C, Moon A. *Biol. Pharmaceut. Bull., 2003, 26(10):1428-30.*

[5] Lee J H, Jang E J, Seo H L, *et al. Chem. Biol. Int., 2014, 224C:58-67.*

[6] Wang L. *China Pharmacist, 2008, 11(3):283-4.*

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