

Leachianone A Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Leachianone A

Catalog No.: CFN97560

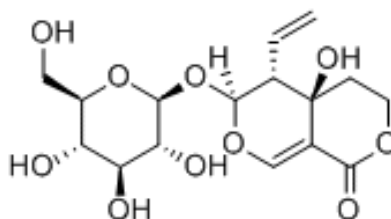
Cas No.: 97938-31-3

Purity: > 95%

M.F: C₂₆H₃₀O₆

M.W: 438.51

Physical Description: Powder



Synonyms: (2S)-5,7-Dihydroxy-2,3-dihydro-2α-(2-methoxy-4-hydroxyphenyl)-8-[(R)-5-methyl-2-(1-methylethenyl)-4-hexenyl]-4H-1-benzopyran-4-one; (S)-5,7-Dihydroxy-2-(4-hydroxy-2-Methoxyphenyl)-8-((R)-5-Methyl-2-(prop-1-en-2-yl)hex-4-en-1-yl)chroman-4-one.

[Intended Use]

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

[Source]

The roots of *Sophora flavescens*.

[Biological Activity or Inhibitors]

Leachianone A, isolated from Radix Sophorae, possesses a profound cytotoxic activity against human hepatoma cell line HepG2 in vitro, with an $IC_{(50)}$ value of 3.4microg/ml post-48-h treatment, its action mechanism via induction of apoptosis involved both extrinsic and intrinsic pathways.^[1]

Leachianone A is a potential antitoxic agent, it shows inhibitory effects on cadmium-Induced cytotoxicity, furthermore, leachianone A shows dose-dependency in detoxication.^[2]

Leachianone A exhibits inhibitory activity against Sodium-dependent glucose cotransporter 2(SGLT2).^[3]

[Solvent]

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

[HPLC Method]^[3]

Mobile phase: 0.1% Formic acid in water- Acetonitrile,gradient elution ;

Flow rate: 9.0 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] Cheung S F, Chung K W, Lui C K, *et al. Cancer Lett.*, 2007, 253(2):224-35.

[2] 양희태, 최화정, 백승화. *동의생리병리학회지*, 2008, 22(5):1163-7.

[3] Yang J, Wang C, Lin Q, *et al. Journal of Huazhong Normal University*, 2014, 48(4):520-4.

[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