

Tussilagone Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Tussilagone

Catalog No.: CFN90629

Cas No.: 104012-37-5

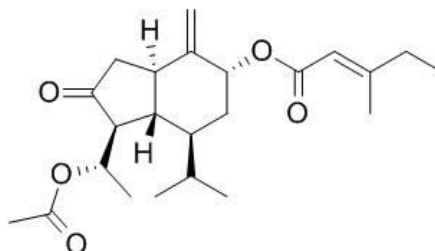
Purity: > 98%

M.F: C₂₃H₃₄O₅

M.W: 390.51

Physical Description: Powder

Synonyms:[(1R,3aR,5R,7S,7aS)-1-(1-acetyloxyethyl)-4-methylidene-2-oxo-7-propan-2-yl]-3,3a,5,6,7,7a-hexahydro-1H-inden-5-yl] (E)-3-methylpent-2-enoate.



[Intended Use]

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

[Source]

The flower of *Tussilago farfara*.

[Biological Activity or Inhibitors]

Tussilagone (TUS) is a potent cardiovascular and respiratory stimulant.^[1]

Tussilagone may be an effective heme oxygenase-1 (HO-1) inducer that has anti-inflammatory effects, and a valuable compound for modulating inflammatory conditions.^[2]

Tussilagone may have therapeutic potential in the treatment of neuro-inflammatory diseases through the inhibition of overproduction of NO and PGE(2).^[3]

Tussilagone, an inhibitor on β -catenin dependent Wnt pathway, it suppresses the β -catenin activity and also decreases the expression of cyclin D1 and c-myc, representative target genes of the Wnt/ β -catenin signaling pathway, and consequently inhibits the proliferation of colon cancer cells, TSL may be a potential chemotherapeutic agent for the prevention and treatment of human colon cancer.^[4]

Tussilagone has a strong antiallergic effect.^[5]

[Solvent]

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

[HPLC Method]^[6]

Mobile phase: Methanol -H₂O=75:25 ;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 220 nm.

[Storage]

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

[References]

[1] Li Y P, Wang Y M. *General Pharmacol.*, 1988, 19(2):261-3.

[2] Hwangbo C, Hyunsun L, Juhee P, *et al. Int. Immunopharmacol.*, 2009 ,9(13-14):1578-

84.

[3] Lim H J, Lee H S, Ryu J H. *Arch. Pharm. Res.*, 2008, 31(5):645-52.

[4] Li H. *Biochem. Bioph. Res. Co.*, 2014, 443(1):132-7.

[5] Li Y F, Chen X Y, Xiong W Y, *et al. Chinese Journal of New Drugs*, 2015, 24(13):1517-22.

[6] Liu Y F, Yang X W, Lu W, *et al. Biomed. Chromatogr.*, 2008, 22(11):1194-200.

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