

Hirsuteine Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Hirsuteine

Catalog No.: CFN90615

Cas No.: 35467-43-7

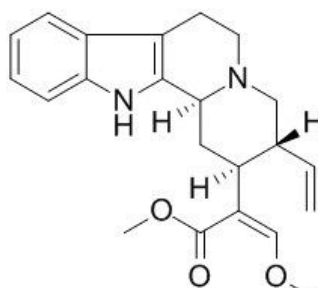
Purity: > 98%

M.F: C₂₂H₂₆N₂O₃

M.W: 366.45

Physical Description: Powder

Synonyms: Methyl (3beta,16E)-16-(methoxymethylidene)coryn-18-en-17-oate.



[Intended Use]

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

[Source]

The herbs of *Uncaria rhynchophylla*.

[Biological Activity or Inhibitors]

Hirsuteine non-competitively antagonizes nicotine-evoked dopamine release by blocking

ion permeation through nicotinic receptor channel complexes.^[1]

Hirsutine shows a preventive effect on the development of gastric erosions in mice, and has antiarrhythmic effects on both aconitine-induced arrhythmias in mice and ouabain-induced arrhythmias in guinea pigs.^[2]

Hirsutine has cytoprotective effects on Pheochromocytoma cells (PC12 cells).^[3]

Hirsutine exhibits potent neuroprotective effects against glutamate-induced HT22 cell death.^[4]

[Solvent]

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

[HPLC Method]^[5]

Mobile phase: 0.2% Ammonia water- Acetonitrile, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 25 °C;

The wave length of determination: 254 nm.

[Storage]

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

[References]

[1] Watano T, Nakazawa K, Obama T, *et al. Jpn. J. Pharmacol.* ,1993, 61(4):351-6.

[2] Ozaki Y. *Nihon Yakurigaku Zasshi.* ,1989, 94(1):17-26.

[3] Kanno H, Kawakami Z, Mizoguchi K, *et al. Plos One*, 2014, 9(12):e116275-e116275.

[4] Qi W, Yue S J, Sun J H, *et al. J. Asian Nat. Prod .Res.*, 2014;16(8):876-83.

[5] Xu D S, Gao Y M, Yang C, *et al. Lishizhen Medicine and Materia Medica Research*, 2015(6):1478-9.

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