

Corynoxetine Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Corynoxetine

Catalog No.: CFN98154

Cas No.: 630-94-4

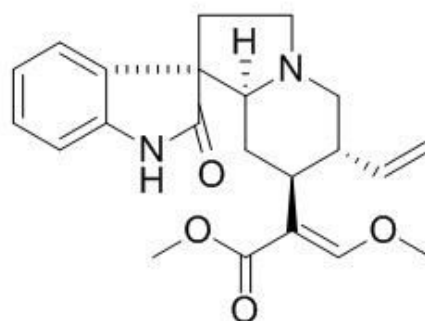
Purity: > 98%

M.F: C₂₂H₂₆N₂O₄

M.W: 382.45

Physical Description: Powder

Synonyms: (E)-2-[(6'R,7'S)-6'-ethenyl-2-oxo-7'-spiro[1H-indole-3,1'-3,5,6,7,8,8a-hexahydro-2H-indolizine]yl]-3-methoxy-2-propenoic acid methyl ester.



[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Food and cosmetic research;
4. Synthetic precursor compounds;
5. Others.

[Source]

The herbs of *Uncaria rhynchophylla*.

[Biological Activity or Inhibitors]

Corynoxetine is a potent ERK1/2 inhibitor of key PDGF-BB-induced vascular smooth muscle cells (VSMCs) proliferation and may be useful in the prevention and treatment of vascular diseases and restenosis after angioplasty.^[1]

[Solvent]

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

[HPLC Method]^[2]

Mobile phase: 0.05 M Ammonium acetate aqueous- (Methanol-Acetonitrile=50:50

), gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 45 °C;

The wave length of determination: 245 nm.

[Storage]

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

[References]

[1] Kim T J, Lee J H, Lee J J, *et al. Biol. Pharm. Bull.*, 2008, 31(11):2073-8.

[2] Yu C, Yang L J, Ma B, *et al. Journal of Shenyang Pharmaceutical University*, 2010, 27(11):897-901

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