

Isocorynoxine Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Isocorynoxine

Catalog No.: CFN98155

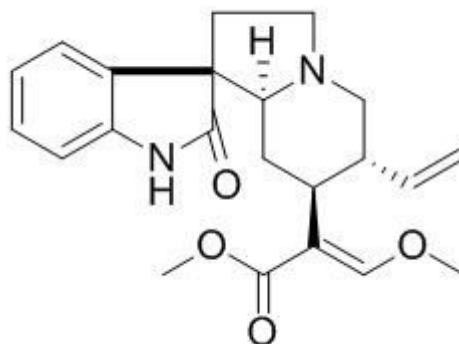
Cas No.: 51014-29-0

Purity: >=98%

M.F: C₂₂H₂₆N₂O₄

M.W: 382.45

Physical Description: Powder



Synonyms: Methyl(E)-2-[(3S,6'R,7'S,8'aS)-6'-ethenyl-2-oxospiro[1H-indole-3,1'-3,5,6,7,8,8a-hexahydro-2H-indolizine]-7'-yl]-3-methoxyprop-2-enoate.

[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]

Isocorynoxine shows the effects of lowering blood pressure, vasodilatation, and protection against ischemia-induced neuronal damage, it exhibits a significant neuroprotective effect against glutamate-induced HT22 cell death at the maximum concentration.^[1]

Isorhynchophylline and isocorynoxine preferentially suppress 5-HT_{2A} receptor function in the brain probably via a competitive antagonism at 5-HT_{2A} receptor sites.^[2]

Isocorynoxine, rhynchophylline, and isorhynchophylline exhibit inhibitory activity on lipopolysaccharide (LPS)-induced NO release in primary cultured rat cortical microglia (IC₅₀:13.7-19.0 microM).^[3]

[Solvent]

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

[HPLC Method]^[4]

Mobile phase: Methanol-Acetonitrile=50:50;

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] Qi W, Chen F, Sun J, *et al. Planta Med.*,2015 Jan;*81*(1):46-55.

[2] Matsumoto K, Morishige R, Murakami Y, *et al. Eur. J. Pharmacol.*,2005 Jul 11;*517*(3): 191-9.

[3] Yuan D, Ma B, Wu C, *et al. J. Nat. Prod.*,2008 Jul;*71*(7):1271-4.

[4] Yu C, Yang L J, Ma B, *et al. Journal of Shenyang Pharmaceutical University*, 2010,

27(11):897-901.

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