Natural Products



Desmethoxy yangonin Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Desmethoxy yangonin

Catalog No.: CFN90149

Cas No.: 15345-89-8

Purity: >=98%

M.F: $C_{14}H_{12}O_3$

M.W: 228.24



Physical Description: Powder

Synonyms: 4-Methoxy-6-(2-phenylethyl)-5,6-dihydro-2H-pyran-2-one.

[Intended Use]

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

[Source]

The roots of Piper methysticum Forst.

[Biological Activity or Inhibitors]

Desmethoxyyangonin and dihydromethysticin are two major pharmacological

kavalactones with marked activity on the induction of CYP3A23.^[1]

Desmethoxyyangonin displays strong inhibition of MAO-A and -B (Ki values 0.922 and 0.031uM, respectively), with about 30 fold more selectivity against MAO-B, selective reversible inhibitors of MAO-B have important therapeutic value for treatment of neurodegenerative disorders and Parkinson's Disease.^[2]

Desmethoxyyangonin protects lipopolysaccharide (LPS) or LPS/D-galactosamine (LPS/D-GalN)-induced damages in cell or liver tissues mainly through de-regulating IKK/NFκB and Jak2/STAT3 signaling pathways.^[3]

[Solvent]

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

[HPLC Method]^[4]

Mobile phase: H2O-Acetonitrile-Reagent alcohol=65:20:15 ; Flow rate: 0.75 ml/min; Column temperature: 40 ℃; The wave length of determination: 246 nm.

[Storage]

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

[References]

[1] Ma Y, Sachdeva K, Liu J, et al. Drug Metab. Dispos., 2004,32(11):1317-24.

[2] Chaurasiya N D, León F, Gómez-Betancur I, et al. Planta Med., 2015, 81 - PB19

[3] Chou T W, Feng J H, Huang C C, et al. Plos One, 2013, 8(10):e77626.

[4] J. R. Mikell, B. T. Schaneberg, I. A. Khan. J. Liq.Chromatogr. R.T., 2003, 26(18):3069-74.

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