

2'-Methoxykurarinone Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: 2'-Methoxykurarinone

Catalog No.: CFN92004

Cas No.: 270249-38-2

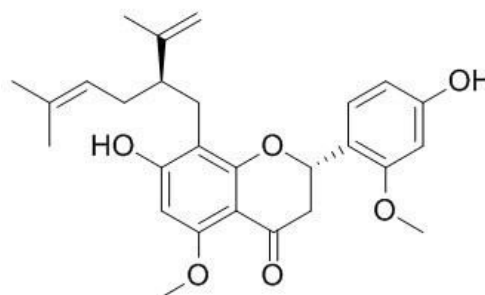
Purity: > 95%

M.F: C₂₇H₃₂O₆

M.W: 452.6

Physical Description: Powder

Synonyms: 4H-1-Benzopyran-4-one, 2,3-dihydro-7-hydroxy-2-(4-hydroxy-2-methoxyphenyl)-5-methoxy-8-[(2R)-5-methyl-2-(1-methylethenyl)-4-hexenyl]-, (2S)-.



[Intended Use]

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

[Source]

The roots of *Sophora flavescens* Ait.

[Biological Activity or Inhibitors]

2'-Methoxykurarinone has strong alpha-glucosidase inhibitory activities, with IC(50) values of 155 microM.^[1]

2'-Methoxykurarinone is a noncompetitive inhibitor of protein tyrosine phosphatase 1B, it exhibits cellular activity in the insulin signaling pathway by increasing the insulin-stimulated Akt phosphorylation level in human hepatocellular liver carcinoma HepG2 cells, suggesting its potential for new anti-insulin-resistant drug developments.^[2]

2'-Methoxykurarinone exhibits lethal activity against *Trypanosoma cruzi*, the minimum lethal concentrations is 6.9 uM.^[3]

[Solvent]

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

[HPLC Method]

Not data available.

[Storage]

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

[References]

[1] Kim J H, Ryu Y B, Kang N S, *et al. Biol. Pharm. Bull.*, 2006, 29(2):302-5.

[2] Sasaki T, Li W, Higai K, *et al. Planta Med.*, 2014, 80(7):557-60.

[3] Matsuo K, Ito M, Honda G, *et al. Natural Medicines*, 2003, 57:253-5.

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