

Kurarinol Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Kurarinol

Catalog No.: CFN92533

Cas No.: 855746-98-4

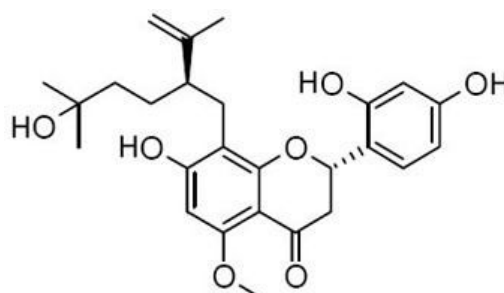
Purity: > 95%

M.F: C₂₆H₃₂O₇

M.W: 456.5

Physical Description: Cryst.

Synonyms:



[Intended Use]

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

[Source]

The root of *Sophora flavescens*.

[Biological Activity or Inhibitors]

Kurarinol has extremely strong tyrosinase inhibitory activity, it leads to inhibition of the oxidation of L-tyrosine to melanin by mushroom tyrosinase (IC₅₀ of 100 nM).^[1]

Kurarinol can improve specific and non-specific cell immunity in patients with chronic hepatitis B(CHB), it is one of the mechanisms that Kurarinol can clear or inhibit HBV of patients with CHB.^[2]

Kurarinol induces hepatocellular carcinoma cell apoptosis through suppressing cellular signal transducer and activator of transcription 3 signaling. ^[3]

Kurarinol shows significant inhibitory activities against intracellular reactive oxygen species (ROS) levels as well as NF-kappaB activation by tert-butylhydroperoxide (t-BHP).^[4]

[Solvent]

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

[HPLC Method]^[5]

Mobile phase: Formic acid -Acetonitrile,gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 280 nm.

[Storage]

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

[References]

[1] Ryu Y B, Westwood I M, Kang N S, *et al. Phytomedicine.*, 2008, 15(8):612-8.

[2] Gu X B. *Zhonghua shi yan he lin chuang bing du xue za zhi*, 2009, 23(4):288-91.

[3] Shu G, Yang J, Zhao W, *et al. Toxicol. Appl. Pharmacol.*, 2014, 281(2):157-65.

[4] Jung H A, Jeong D M, Chung H Y, *et al. Biol. Pharm.Bull.*, 2008, 31(5):908-15.

[5] Zhang Q H, Yu J B, Wang Y Y, *et al. Molecules*, 2016, 21(8):989.

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