Natural Products

ChemFaces

Kuraridine Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Kuraridine

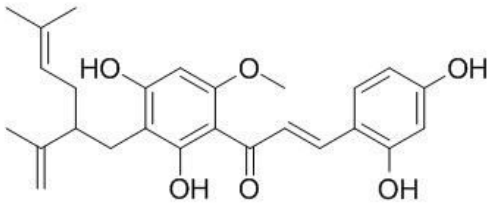
Catalog No.: CFN92006

Cas No.: 34981-25-4

Purity: > 98%

M.F: $C_{26}H_{30}O_6$

M.W: 438.5



Physical Description: Cryst.

Synonyms:1-[2,4-Dihydroxy-6-methoxy-3-[5-methyl-2-(1-methylethenyl)-4-hexenyl]phenyl]-3-(2,4-dihydroxyphenyl)-2-propen-1-one.

[Intended Use]

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

[Source]

The roots of *Sophora flavescens.*

[Biological Activity or Inhibitors]

Kuraridin, one flavonoid antioxidant of the methanol extract of Sophora flavescens, is an effective inhibitor of alpha-glucosidase and beta-amylase, it also exhibits IC(50) value of 57 microM against beta-glucosidase.[1]

Kuraridine is one aminobutyric acid [GABA(A)] receptor modulators, can potentiate γ-aminobutyric acid (GABA)-induced chloride influx in Xenopus oocytes transiently expressing GABA(A) receptors with subunit composition, α(1)β(2)γ(2S).[2]

[Solvent]

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

[HPLC Method][2]

HPLC–PDA–ESI- TOFMS:

Mobile phase: Acetonitrile - 0.1% Formic acid H2O, gradient elution;

Flow rate: 0.5 ml/min;

Column temperature: 30 ℃;

Dry gas temperature: 240 °C;

Flow rate of gas : 9.0L/min.

Carrier gas: N2;

Pressure of gas:2.0 bar(200 kPa);

Capillary voltage: 4500 V.

[Storage]

2-8℃, 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] Yang X, Baburin I, Plitzko I, *et al. Mol. Divers, 2011, 15(2):361-72.*

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