

8-Prenylkaempferol Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: 8-Prenylkaempferol

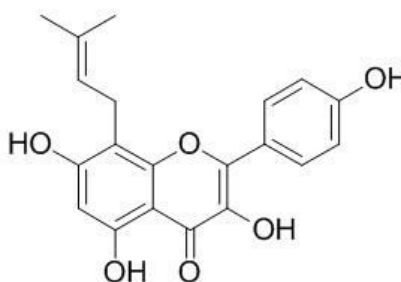
Catalog No.: CFN92346

Cas No.: 28610-31-3

Purity: > 95%

M.F: C₂₀H₁₈O₆

M.W: 354.4



Physical Description: Yellow powder

Synonyms: 4H-1-Benzopyran-4-one,3,5,7-trihydroxy-2-(4-hydroxyphenyl)-8-(3-methyl-2-buten-1-yl)-; Flavone,3,4',5,7-tetrahydroxy-8-(3-methyl-2-butenyl)- (8Cl).

[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]

8-Prenylkaempferol can accelerate osteoblast maturation through bone morphogenetic protein-2/p38 pathway to activate Runx2 transcription, it may be a promising agent for inducing osteogenesis.^[1]

8-Prenylkaempferol has anti-inflammatory properties, it is an effective agent for attenuating pro-inflammatory NO induction.^[2]

[Solvent]

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

[HPLC Method]^[3]

Mobile phase: Acetonitrile-0.05%Phosphoric acid in water,gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 35 °C;

The wave length of determination: 370 nm.

[Storage]

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

[References]

[1] Chiou W F, Lee C H, Liao J F, *et al. Life Sci.*, 2011, 88(7-8):335-42.

[2] Chen C, Tsai P B, Chiou W. *Eur. J. Pharmacol.*, 2008, 590(1-3):430-6.

[3] Wang A H, Kong Y, Shang M Y, *et al. Journal of Chinese Pharmaceutical Sciences*, 2015,24(6):376-82.

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