

Iriflophenone 3-C-beta-D-glucopyranoside Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Iriflophenone 3-C-beta-D-glucopyranoside

Catalog No.: CFN99063

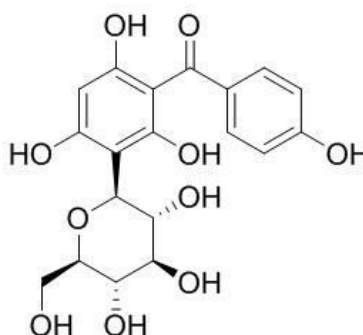
Cas No.: 104669-02-5

Purity: > 95%

M.F: C₁₉H₂₀O₁₀

M.W: 408.4

Physical Description: Powder



Synonyms: (3-β-D-Glucopyranosyl-2,4,6-trihydroxyphenyl)(4-hydroxyphenyl)methanone;

Iriflophenone 3-C-β-D-glucoside; Iriophenone 3-C-glucoside.

[Intended Use]

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

[Source]

The herbs of *Aquilaria sinensis*.

[Biological Activity or Inhibitors]

Iriflophenone-3- C -glucoside has antioxidant activity, it presents no radical scavenging ability against DPPH , but scavenges ABTS + and peroxy radicals (TEAC ABTS of 1.04 and TEAC ORAC of 3.61).^[1]

Iriflophenone-3-C- β -d-glucoside shows potent inhibitory activity against α -glucosidase.^[2]

Iriflophenone 3-C- β -D-glucoside and mangiferin which along with 3 β taraxerol and other sterols could be contributing to the cholesterol lowering activity.^[3]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method]^[1]

Mobile phase: 2% Acetic acid in water- Acetonitrile, gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 288nm.

[Storage]

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

[References]

[1] Malherbe C J, Willenburg E, Beer D D, *et al. J. Chromatogr. B Analyt . Technol. Biomed. Life Sci.*, 2014 Mar 1; 951-952: 164-71.

[2] Feng J, Yang X W, Wang R F. *Phytochemistry*, 2011 Feb; 72(2-3): 242-7.

[3] Gururaja G. M, Mundkinajeddu Deepak, Senthil Kumar A, *et al, Pharmacognosy Res.*, 2017 Jan-Mar; 9(1): 21-6.

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