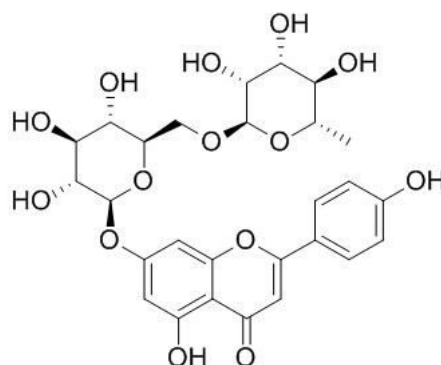


Isorhoifolin Datasheet

4th Edition (Revised in July, 2016)**[Product Information]****Name:** Isorhoifolin**Catalog No.:** CFN98927**Cas No.:** 552-57-8**Purity:** > 98%**M.F:** C₂₇H₃₀O₁₄**M.W:** 578.5**Physical Description:** Yellow powder

Synonyms: Apigenin-7-rutinoside; 4',5-Dihydroxy-7-[6-O-(α -L-rhamnopyranosyl)- β -D-glucopyranosyloxy]flavone; 7-[[6-O-(6-deoxy- α -L-mannopyranosyl)- β -D-glucopyranosyl]oxy]-5-hydroxy-2-(4-hydroxyphenyl)-4H-benzopyran-4-one.

**[Intended Use]**

1. Reference standards;
2. Pharmacological research;
3. Food research;
4. Cosmetic research;
5. Synthetic precursor compounds;
6. Care and daily chemicals;
7. Intermediates & Fine Chemicals;
8. Ingredient in supplements, beverages;
9. Dairy products;

10. Others.

[Source]

The leaves of *Citrus paradisi*.

[Biological Activity or Inhibitors]

Isorhoifolin, one compound of crude ethanolic extract of the aerial parts of *Dracocephalum palmatum* Stephan (Lamiaceae), has antioxidant effects.^[1]

Isorhoifolin displays an anti-leakage effect comparable to or greater than diosmin.^[2]

Isorhoifolin in *Pilea microphylla* (PM1) may reverse the disturbed metabolic milieu in C57BL/KsJ-db/db mice.^[3]

Isorhoifolin and vicenin II are main compounds of ethyl acetate fraction (EAcF) obtained from *Erythrina velutina* leaves, EAcF increases the cardiac contractile force by increasing the I-type calcium current and activating the adrenergic receptor pathway.^[4]

[Solvent]

Pyridine, DMSO, Ethanol, Methanol, Hot water.

[HPLC Method]^[5]

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

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 320 nm.

[Storage]

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

[References]

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- [3] Bansal P, Paul P, Shankar G, *et al. Phys. Rev. A*, 2011, 1(4):268-72.
- [4] Passos A G D S, Gondim A N S, Roman-Campos D, *et al. J. Pharm. Pharmacol.*, 2013, 65(6):928-36.
- [5] Bansal P, Paul P, Mudgal J, *et al. Exp. Toxicol. Pathol.* , 2012, 64(6):651-8.

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