

Rhoifolin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Rhoifolin

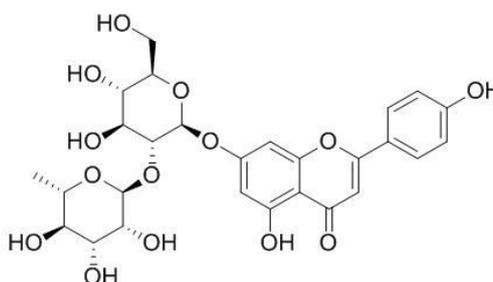
Catalog No.: CFN99814

Cas No.: 17306-46-6

Purity: >=98%

M.F: C₂₇H₃₀O₁₄

M.W: 578.52



Physical Description: Yellow powder

Synonyms: Apigenin-7-O-neohesperidoside; Apigenin-7-O-rhamnoglucoside;

7-((2-O-(6-Deoxy-alpha-L-mannopyranosyl)-beta-D-glucopyranosyl)oxy)-5-hydroxy-2-(4-hydroxyphenyl)-4H-benzopyran-4-one; NSC 649413; Rhoifolide;

5-Hydroxy-2-(4-hydroxyphenyl)-4-oxo-4H-chromen-7-yl-2-O-(6-deoxy-alpha-L-mannopyranosyl)-beta-D-glucopyranoside; 5-Hydroxy-2-(4-hydroxyphenyl)-4-oxo-4H-chromen-7-yl-2-O-(6-deoxyhexopyranosyl)hexopyranoside; 5-Hydroxy-2-(4-hydroxyphenyl)-4-oxo-4H-chromen-7-yl (3xi)-2-O-(6-deoxy-alpha-L-mannopyranosyl)-beta-D-ribo-hexopyranoside.

[Intended Use]

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

[Source]

The leaves of *Turpinia arguya* Seem.

[Biological Activity or Inhibitors]

Rhoifolin and cosmosiin from red wendun leaves may be beneficial for diabetic complications through their enhanced adiponectin secretion, tyrosine phosphorylation of insulin receptor- β and GLUT4 translocation.^[1]

Rhoifolin has anti-inflammatory activity and increases the total antioxidant capacity in a reverse dose order, it can cause a time and reverse dose dependent reduction of carrageenin-induced rat paw oedema, significantly abrogate prostaglandin E2 level, significantly diminish the TNF- α release in the inflammatory exudates.^[2]

Rhoifolin could be used as an ideal anticancer agent, it discriminates between cancerous and non cancerous cell as it kills only the former one, so the side effects which may appear during chemotherapy could be overcome. ^[3]

Rhoifolin has a radioprotective effect against radiation-induced decrease of blood platelets and cardiac biochemical lesions in whole body irradiated mice.^[4]

Rhoifolin has protective effect against hepatic injury induced by triptolide.^[5]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method]^[6]

Mobile phase: Methanol- H₂O, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 324 nm.

[Storage]

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

[References]

- [1] Rao Y, Lee M, Chen K, *et al. Evid.-Based Compl. Alt. M.*, 2011, 2011(1741-427X):1-9.
- [2] Eldahshan O A, Azab S S. *J. Appl. Pharmaceut. Sci.*, 2012, 2(8):74-9.
- [3] Eldahshan O. *Brit. J. Pharmaceut. Res.*, 2013, 3(1):46-53.
- [4] Omayma A. Eldahshan, Omama El-Shawi. *Arab Journal of Nuclear Science and Applications*, 2014, 47(1):198-204.
- [5] Gao S L, Lu YY, An LJ, *et al. Pharmacology & Clinics of Chinese Materia Medica*, 2012(6):18-20.
- [6] Yu X X, Liu Q D, Wu J W, *et al. Acta Chromatogr.*, 2016, 28(1):129-43.

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