Natural Products

ChemFaces

Eriocitrin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Eriocitrin

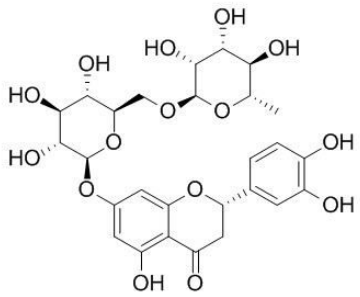
Catalog No.: CFN99718

Cas No.: 13463-28-0

Purity: >=98%

M.F: $C_{27}H_{32}O_{15}$

M.W: 596.53



Physical Description: Powder

Synonyms: Eriodictyol-7-O-rutinoside;
(S)-7-[[6-O-(6-deoxy-alpha-L-mannopyranosyl)-beta-D-glucopyranosyl]oxy]-2-(3,4-dihydroxyphenyl)-2,3-dihydro-5-hydroxy-4H-benzopyran-4-one;
(s)-3',4',5,7-tetrahydroxyflavanone-7-[6-o-(α-l-rhamnopyranosyl)-β-d-glucopyranoside];
(2S)-2-(3,4-dihydroxyphenyl)-5-hydroxy-7-[(2S,3R,4S,5S,6R)-3,4,5-trihydroxy-6-[[(2R,3R,4R,5R,6S)-3,4,5-trihydroxy-6-methyl-oxan-2-yl]oxymethyl]oxan-2-yl]oxy-chroman-4-one.

[Intended Use]

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

[Source]

The fruits of *Citrus sinensis (L.) Osbeck.*

[Biological Activity or Inhibitors]

Eriocitrin, a flavonoid glycoside present in lemon fruit, following administration of eriocitrin, plasma exhibited an elevated resistance effect to lipid peroxidation; eriocitrin metabolites functioning as antioxidant agents.[1]

Eriocitrin may play an important role in the control of the change in glutathione redox status in rat liver during exercise, shows that eriocitrin is effective in the prevention of oxidative damages caused by acute exercise-induced oxidative stress.[2]

Eriocitrin has lipid-lowering effect in rats on a high-fat and high-cholesterol diet. [3]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method][4]

Mobile phase: Acetonitrile-Acetic acid -H2O=19:3:78 ;

Flow rate: 0.8 ml/min;

Column temperature: 30 ℃;

The wave length of determination: 280 nm.

[Storage]

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

[References]

[1] Miyake Y, Shimoi K, Kumazawa S, *et al. J.Agr. Food Chem., 2000, 48(8):3217-24.*

[2] Minato K I, Miyake Y, Fukumoto S, *et al. Life Sci., 2003, 72(14):1609-16.*

[3] Miyake Y, Suzuki E, Ohya S, *et al. J. Food Sci., 2006, 71(71):S633–S7.*

[4] Saeidi I, Hadjmohammadi M R, Peyrovi M, *et al. J. Pharmaceut.Biomed., 2011, 56(2):419-22.*

[Contact]

Address:
S5-3 Building, No. 111, Dongfeng Rd.,
Wuhan Economic and Technological Development Zone,
Wuhan, Hubei 430056,
China

Email: info@chemfaces.com
Tel: +86-27-84237783
Fax: +86-27-84254680
Web: www.chemfaces.com
Tech Support: service@chemfaces.com