Natural Products

ChemFaces

Narirutin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Narirutin

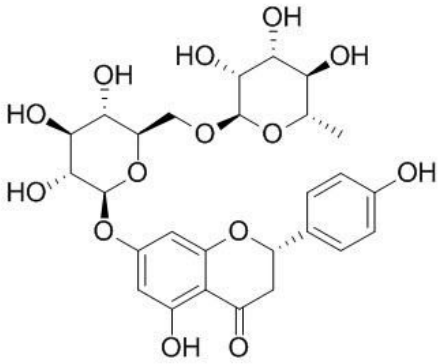
Catalog No.: CFN99543

Cas No.: 14259-46-2

Purity: 98%

M.F: $C_{27}H_{32}O_{14}$

M.W: 580.53



Physical Description: White powder

Synonyms: Naringenin-7-O-rutinoside; Isonaringin; (2S)-5-hydroxy-2-(4-hydroxyphenyl)-4-oxo-3,4-dihydro-2H-chromen-7-yl-6-O-(6-deoxy-alpha-L-mannopyranosyl)-beta-D-glucopyrano- side; 4H-1-benzopyran-4-one,7-[[6-O-(6-deoxy-alpha-L-mannopyranosyl)-beta-D-gluco-pyranosyl]oxy]-2,3-dihydro-5-hydroxy-2-(4-hydroxyphenyl)-, (2S)-.

[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Food and cosmetic research;
4. Synthetic precursor compounds;
5. Others field.

[Source]

The young fruit of *Citrus grandis (L.) Osbeck.*

[Biological Activity or Inhibitors]

Narirutin has anti-inflammatory effect in a murine model of allergic eosinophilic airway inflammation, the mechanism is likely to be associated with a reduction in the OVA-induced increases of IL-4 and IgE, suggests that narirutin may be an effective new tool in the treatment of bronchial asthma.[1]

Citrus narirutin fraction (CNF), contained 75% of narirutin, co-administration of CNF with alcohol can alleviate alcohol induced liver damage through preventing lipid formation, protecting antioxidant system and suppressing productions of pro-inflammatory cytokines.[2]

Narirutin has inhibition on cuprizone-induced apoptosis of oligodendrocyte.[3]

[Solvent]

Acetone, Methanol, Ethanol, Hot water.

[HPLC Method][4]

Mobile phase: Methanol -H2O,gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 284nm.

[Storage]

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

[References]

[1] Funaguchi N, Ohno Y, Bu L B L, *et al. Clin. Exp. Pharm. P., 2007, 34(8):766-70.*

[2] Park H Y, Sang K H, Eom H, *et al. Food Chem. Toxicol. , 2013, 55(3):637-44.*

[3] Zhan R, Watanabe K.. *Neurosci. Res., 2011, 71(3):e323.*

[4] Lee S, Khoo C S, Pearson J L, *et al. J. Aoac. Int., 2009, 92(3):789-96.*

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