Natural Products

ChemFaces

Isorhamnetin-3-O-beta-D-Glucoside Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Isorhamnetin-3-O-beta-D-Glucoside

Catalog No.: CFN99757

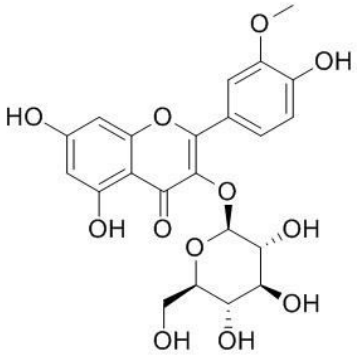
Cas No.: 5041-82-7

Purity: >=98%

M.F: $C_{22}H_{22}O_{12}$

M.W: 478.40

Physical Description: Powder



Synonyms: Isorhamnetin-3-glucopyranoside;Isorhamnetin-3-O-glucoside.

[Intended Use]

1. Reference standards;

2. Pharmacological research;

3. Synthetic precursor compounds;

4. Intermediates & Fine Chemicals;

5. Others.

[Source]

The herbs of *Typha orientalis Presl.*

[Biological Activity or Inhibitors]

Isorhamnetin-3-O-beta-D-glucoside exhibits a potent rat lens aldose reductase (RLAR)

inhibition in vitro, its IC(50) being 1.4 microM and has inhibitory effects of sorbitol accumulation, suggests that it is a leading compound for further study as a new drug for the prevention and/or treatment of diabetes and its complications.[1]

Isorhamnetine-3-O-rutinoside inhibits the activity of alpha-glucosidase from rat intestine.[2]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method][3]

Mobile phase: Methanol-0.05% Acetic acid in water,gradient elution ;

Flow rate: 0.8 ml/min;

Column temperature: 30 ℃;

The wave length of determination: 340 nm.

[Storage]

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

[References]

[1] Lee Y S, Lee S, Lee H S, *et al. Biol. Pharm. Bull., 2005, 28(5):916-8.*

[2] Shibano M, Kakutani K, Taniguchi M, *et al. J. Nat. Med., 2008, 62(3):349-53.*

[3] Chen Y, Yao H, Li S, *et al. Chinese Journal of Pharmaceutical Analysis, 2011, 31(4): 645-50.*

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