

Didymin Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Didymin

Catalog No.: CFN92363

Cas No.: 14259-47-3

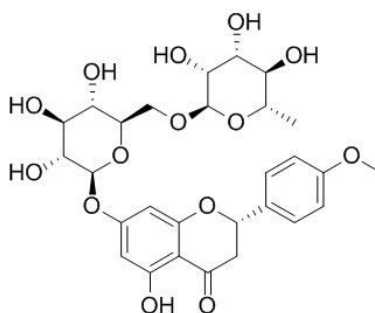
Purity: > 98%

M.F: C₂₈H₃₄O₁₄

M.W: 594.6

Physical Description: Powder

Synonyms: Isosakuranetin-7-O-rutinoside; Isosakuranetin-7-beta-rutinoside; Neoponcirin;
(S)-7-((6-O-(6-Deoxy-alpha-L-mannopyranosyl)-beta-D-glucopyranosyl)oxy)-2,3-dihydro-5-hydroxy-2-(4-methoxyphenyl)-4H-benzopyran-4-one.



[Intended Use]

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

[Source]

The herbs of *Clinopodium chinense*.

[Biological Activity or Inhibitors]

Didymin possesses antioxidant properties, it has antiproliferative activity in A549 and H460 cells via Fas/Fas ligand apoptotic system.^[1]

Didymin shows radical scavenging activities and it protects the neuronal cells against H₂O₂-induced neurotoxicity, it may be a potential therapeutic molecule for the treatment of neurodegenerative disorders associated with oxidative stress.^[2]

Didymin alleviates hepatic fibrosis by inhibiting ERK/MAPK and PI3K/Akt pathways via regulation of RKIP expression. ^[3]

Didymin induces apoptosis against of HepG2 cells through mitochondrial dysfunction and inactivation of the ERK/MAPK and PI3K/Akt pathways by up-regulating RKIP.^[4]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method]^[5]

Mobile phase: Methanol -H₂O, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 285 nm.

[Storage]

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

[References]

[1] Jaishree V, Badami S. *J. Ethnopharmacol.*, 2010, 130(1):103-6.

[2] Morelli S, Piscioneri A, Salerno S, *et al. Cells Tissues Organs*, 2014, 199(2-3):184-200.

[3] Lin X, Bai F, Nie J, *et al. Cell. Physiol. Biochem.*, 2016, 40(6):1422-32.

[4] Wei J, Huang Q, Bai F, *et al. Chem. Biol. Interact.* ,2017,261:118-26.

[5] Xu J, Xu C, Liu B. *Chinese Journal of Pharmaceutical Analysis*, 2013, 33(12):2077-81.

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