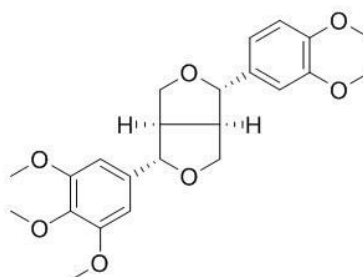


Magnolin Datasheet

4th Edition (Revised in July, 2016)**[Product Information]****Name:** Magnolin**Catalog No.:** CFN98391**Cas No.:** 31008-18-1**Purity:** > 98%**M.F:** C₂₃H₂₈O₇**M.W:** 416.46**Physical Description:** Powder**Synonyms:** 1H,3H-Furo[3,4-c]furan,1-(3,4-dimethoxyphenyl);Medioresinol-dimethyl ether;tetrahydro-4-(3,4,5-trimethoxyphenyl)-,(1S,3aR,4S,6aR)-.**[Intended Use]**

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

[Source]The flowers of *Magnolia biondii* Pamp.**[Biological Activity or Inhibitors]**

Magnololn is the major active ingredient of the herb *Magnolia fargesii* which has anti-inflammatory and antioxidative effects; it can ameliorate the renal tubular necrosis, apoptosis, and the deterioration of renal function, it also can reduce the renal oxidative stress, suppress caspase-3 activity, and increase Bcl-2 expression in vivo and in vitro; suggests that magnolin may protect contrast-induced nephropathy (CIN). in rats through antioxidation and antiapoptosis.^[1]

Magnololn can inhibit cell migration and invasion by targeting the ERKs/RSK2 signaling pathway.^[2]

Magnololn may be a naturally occurring chemoprevention and therapeutic agent capable of inhibiting cell proliferation and transformation by targeting ERK1 and ERK2. ^[3]

Magnololn has anti-inflammatory and anti-allergic effects .^[4]

[Solvent]

Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

[HPLC Method]^[5]

Mobile phase: Acetonitrile- Tetrahydrofuran- H₂O=35:1:64;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 278 nm.

[Storage]

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

[References]

[1] Wang F, Zhang G, Zhou Y, *et al. Oxid. Med. Cell. Longev.*, 2014, 2014:203458-203458.

[2] Lee C J, Lee M H, Yoo S M, *et al. BMC Cancer*, 2015, 15(1):1-12.

[3] Lee C J, Lee M H, Lee J Y, *et al. Cancer Res.*, 2014, 74(19):1249-1249.

[4] Li X L, Zhang Y Z. *Chinese Traditional & Herbal Drugs*, 2002, 33(11):1014-5.

[5] Fang H, Guo Q, Su W, *et al.* *Chinese Journal of Pharmaceutical Analysis*, 2002, 22:
342-5.

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