

Matairesinol Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Matairesinol

Catalog No.: CFN98983

Cas No.: 580-72-3

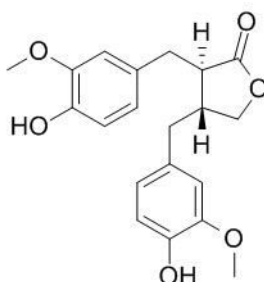
Purity: > 95%

M.F: C₂₀H₂₂O₆

M.W: 358.39

Physical Description: Powder

Synonyms: 3R,4R-Bis((4-hydroxy-3-methoxyphenyl)methyl)dihydro-2(3H)-furanone;
2(3H)-Furanone, dihydro-3,4-bis((4-hydroxy-3-methoxyphenyl)methyl)-, (3R-trans)-.



[Intended Use]

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

[Source]

The roots of *Wikstroemia indica*.

[Biological Activity or Inhibitors]

Matairesinol and secoisolariciresinol are considered to be enterolignan precursors; enterolignans (enterolactone and enterodiol) are phytoestrogens that are formed by the colonic microflora from plant lignans, they may reduce the risk of certain types of cancer and cardiovascular diseases.^[1]

Matairesinol(MAT) is effective as a death receptor-sensitizing agent, it sensitizes the androgen-dependent LNCaP cells to TRAIL-induced apoptosis both in the presence and absence of androgens, treatment with MAT markedly decreased Akt activity, which has been implicated as a key signaling mechanism in the TRAIL resistance of LNCaP prostate cancer cells.^[2]

Matairesinol has radical and superoxide scavenging activities. ^[3]

[Solvent]

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

[HPLC Method]^[4]

Mobile phase: Acetonitrile-H₂O=32:68 ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 254 nm.

[Storage]

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

[References]

[1] Milder I E, Feskens E J, Arts I C, *et al. J.Nutr.*, 2005, 135(5):1202-7.

[2] Peuhu E, Riveromüller A, Stykki H, *et al. Oncogene*, 2010, 29(6):898-908.

[3] Yamauchi S, Sugahara T, Nakashima Y, *et al. Biosci., Biotech. Bioch.* 2006, 70(8): 1934-40.

[4] Kim C Y, Ahn M J, Kim J. *J. Sep. Sci.*, 2006, 29(5):656-9.

[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