[ Product Information ]

Name: Medioresinol

Catalog No.: CFN98641

Cas No.: 40957-99-1

Purity: > 98%

M.F: C_{21}H_{24}O_{7}

M.W: 388.4

Physical Description: Powder

Synonyms:

4-[(3S,3aR,6S,6aR)-3-(4-hydroxy-3-methoxyphenyl)-1,3,3a,4,6,6a-hexahydrofuro[3,4-c]furan-6-yl]-2,6-dimethoxyphenol; 2,6-Dimethoxy-4[tetrahydro-4-(4-hydroxy-3-methoxyphenyl)-1H,3H-furo[3,4-c]furan-1-yl]phenol; 2-(4-Hydroxy-3,5-dimethoxyphenyl)-6-(4-hydroxy-3-methoxyphenyl)-3,7-dioxabicyclo[3.3.1]octane; 4,4'-Dihydroxy-3,3',5-trimethoxy-7,9':7',9-diepoxy lignan

[ Intended Use ]

1. Reference standards;

2. Pharmacological research;

3. Synthetic precursor compounds;

4. Intermediates & Fine Chemicals;
5. Others.

[ Source ]

The herbs of *Allamanda nerifolia*

[ Applications ]

Medioresinol is known to possess a leishmanicidal activity and cardiovascular disease risk reduction.

These apoptotic phenomena represent that oxidative stress and mitochondria dysfunctions by inducing the phytochemical (+)-Medioresinol must be an important factors of the apoptotic process in *C. albicans*. These results support the elucidation of the underlying antifungal mechanisms of (+)-Medioresinol.

(+)-Medioresinol possessed antibacterial effects against antibiotics-susceptible- or antibiotics-resistant strains. Most of combinations between (+)-Medioresinol and each antibiotic showed synergistic interaction (fractional inhibitory concentration index ≤ 0.5) against bacterial strains including antibiotics-resistant *Pseudomonas aeruginosa*. Furthermore, the antibiofilm effect of (+)-Medioresinol alone or in combination with each antibiotic was investigated. The results indicated that not only (+)-Medioresinol but also its combination with each antibiotic had antibiofilm activities. It concludes that (+)-Medioresinol has potential as a therapeutic agent and adjuvant for treatment of bacterial infection.

[ Solvent ]

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

[ HPLC Method ]

Mobile phase: Methanol-H2O gradient elution;

Flow rate: 1.0 ml/min;

The wave length of determination: 232 nm.
[ **Storage** ]

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

[ **References** ]