Fargesin Datasheet

[ Product Information ]

Name: Fargesin
Catalog No.: CFN98174
Cas No.: 31008-19-2
Purity: >98%
M.F: C_{21}H_{22}O_{6}
M.W: 370.39

Physical Description: Cryst.

Synonyms: 1,3-Benzodioxole,5-[(1S,3aR,4R,6aR)-4-(3,4-dimethoxyphenyl)tetrahydro-1H,3H-furo[3,4-c]furan-1-yl].-

[ 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 ]
Fargesin can promote the glucose uptake in 3T3-L1 adipocytes and increase glucose transporter 4 (GLUT4) protein expression and phosphorylation of Akt, AMP-activated protein kinase (AMPK), and acetyl-CoA carboxylase (ACC) in both 3T3-L1 adipocytes and WAT of HFD-induced obese mice, fargesin also can decrease the mRNA expression levels of fatty acid oxidation-related genes, such as peroxisome proliferator-activated receptor α (PPARα), carnitine palmitoyltransferase-1 (CPT-1), uncoupling protein-2 (UCP-2) and leptin in WAT; suggest that fargesin improves dyslipidemia and hyperglycemia by activating Akt and AMPK in WAT.[1]

Fargesin exerts anti-inflammatory effects in THP-1 monocytes by suppressing PKC-dependent AP-1 and NF-κB signaling.[2]

Fargesin is widely used in the treatment of managing rhinitis, inflammation, histamine, sinusitis, and headache; fargesin treatment can reduce SBP, cardiac hypertrophy, and Ang II and ET levels of hypertensive rats and increase NOS activity and NO level; normalisation of plasma MDA concentrations and improvement of the antioxidant defence system in plasma and liver accompanied the antihypertensive effect of fargesin. [3]

Fargesin as a potential β1AR antagonist through cAMP/PKA pathway could protect against myocardial ischemia/reperfusion injury in rats, the underlining mechanism may be related to inhibiting oxidative stress and myocardial apoptosis.[4]

Fargesin can substantially reduce bone-resorbing activity of osteoclasts by inhibiting MMP-9 and cathepsin K activities and can inhibit tumor growth and cancer-mediated bone destruction in mice with MDA-MB-231 cells injected into calvarial tissues.[5]

[ Solvent ]

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

[ HPLC Method ][6]

Mobile phase: Acetonitrile-H2O= 50:50 ;
Flow rate: 1.0 ml/min;
Column temperature: 30 °C;
The wave length of determination: 278 nm.

[Storage]

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

[References]


[Contact]

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