[ Product Information ]

Name: Sappanchalcone

Catalog No.: CFN97522

Cas No.: 94344-54-4

Purity: > 98%

M.F: C_{16}H_{14}O_{5}

M.W: 286.3

Physical Description: Orange powder

Synonyms: (E)-3-(3,4-dihydroxyphenyl)-1-(4-hydroxy-2-methoxyphenyl)-2-propen-1-one.

[ Intended Use ]

1. Reference standards;
2. Pharmacological research;
3. Food research;
4. Cosmetic research;
5. Synthetic precursor compounds;
6. Intermediates & Fine Chemicals;
7. Ingredient in supplements, beverages;
8. Others.

[ Source ]

The herbs of Caesalpinia sappan.
[ Biological Activity or Inhibitors]
Sappanchalcone, a flavonoid extracted from Caesalpinia sappan, exhibits cytoprotective activity, it suppresses oral cancer cell growth and induces apoptosis through the activation of p53-dependent mitochondrial, p38, ERK, JNK, and NF-κB signaling, thus, it has potential as a chemotherapeutic agent for oral cancer.[1]
Sappanchalcone has anti-inflammatory effects, it reduces clinical arthritis, inflammatory edema in paws and maintains bone mineral density and trabecular structure in collagen-induced arthritis (CIA) mice, it could be used as an anti-inflammatory and bone-protective agent during the treatment of rheumatoid arthritis.[2]
Sappanchalcone possesses the most potent effect against allergic reaction in basophilic leukemic (RBL-2H3) cells with an inhibitory concentration (IC50) value of 7.6 uM, it may have anti-allergic activity.[3]
Sappanchalcone shows xanthine oxidase inhibitory activity, is a xanthine oxidase inhibitor.[4]

[ Solvent ]
Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

[ HPLC Method ][4]
Mobile phase: 0.02 M KH₂PO₄: 1% Methanol, gradient elution;
Flow rate: 1.0 ml/min;
Column temperature: 30 °C;
The wave length of determination: 254 nm.

[ Storage ]
2-8°C, Protected from air and light, refrigerate or freeze.
[ References ]


[ Contact ]

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