Natural Products

ChemFaces

Curculigoside Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Curculigoside

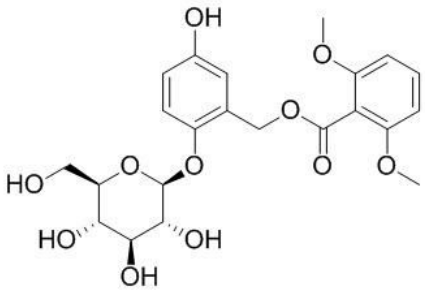
Catalog No.: CFN97419

Cas No.: 85643-19-2

Purity: >=98%

M.F: $C_{22}H_{26}O_{11}$

M.W: 466.44



Physical Description: Powder

Synonyms:5-Hydroxy-2-[(2S,3R,4S,5S,6R)-3,4,5-trihydroxy-6-(hydroxymethyl)oxan-2-yl] oxyphenyl]methyl-2,6-dimethoxybenzoate; β -D-Glucopyranoside,2-[[(2,6-diMethoxy benzoyl)oxy]Methyl]-4-hydroxyphenyl.

[Intended Use]

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

[Source]

The rhizomes of *Curculigo orchioides Gaertn.*

[Biological Activity or Inhibitors]

Curculigoside can protect endothelial cells against oxidative injury induced by H(2)O(2), suggesting that this compound may constitute a promising intervention against cardiovascular disorders.[1]

Curculigoside shows potent antioxidative activities.[2]

Curculigoside has neuroprotective effects on glutamate-induced excitotoxicity, the effects are related to down regulating the apoptotic protein levels and reducing the production of intracellular reactive oxygen species in cultured cortical neurons. [3]

Curculigoside can improve cognitive function in aged animals, possibly by decreasing the activity of AchE in the cerebra and inhibiting the expression of BACE1 in the hippocampus.[4]

Curculigoside exhibits potent inhibitory activity against matrix metalloproteinase-1 in cultured human skin fibroblasts.[5]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method][6]

Mobile phase: Methanol- H2O- Acetic acid=45:80:1 ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 283 nm.

[Storage]

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

[References]

[1] Wang Y K, Hong Y J, Wei M, *et al. J. Ethnopharmacol., 2010, 132(1):233-9.*

[2] Wu Q, Fu D, Hou A, *et al. Chem. Pharm.Bull., 2005, 53(8):1065-7.*

[3] Tian Z, Yu W, Liu H B, *et al. Food Chem. Toxicol., 2012, 50(11):4010-5.*

[4] Wu X Y, Li J Z, Guo J Z, *et al. Molecules, 2012, 17(9):10108-18.*

[5] Lee S Y, Kim M H. *Arch. Pharm. Res., 2009, 32(10):1433-9.*

[6] Lu H W, Zhu B H, Liang Y K.*China Journal of Chinese Materia Medica, 2002, 27(3):192-4.*

[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