Natural Products

ChemFaces

Mulberrofuran G Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Mulberrofuran G

Catalog No.: CFN92788

Cas No.: 87085-00-5

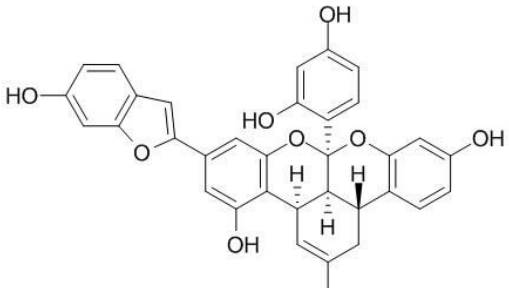
Purity: > 95%

M.F: $C_{34}H_{26}O_8$

M.W: 562.6

Physical Description: Powder

Synonyms:



[Intended Use]

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

[Source]

The root bark of *Morus alba L.*

[Biological Activity or Inhibitors]

Mulberrofuran G, islolated from the aqueous extract of the root bark of *Morus alba L.*

(AMA), can inhibit the production of MUC5AC mucin induced by phorbol 12-myristate 13-acetate (PMA) from NCI-H292 cells, indicates that it can regulate the secretion and production of airway mucin and, at least in part, explains the folk use of extract of Morus alba L. as mucoregulators in diverse inflammatory pulmonary diseases.[1]

Mulberrofuran G shows protective effects on t-BHP-induced oxidative stress with EC50 values of 15.31±2.21uM, it also shows protective effects on glutamate-induced cell death with EC50 values of 19.71±0.71uM.[2]

Mulberrofuran G shows strong antibacterial activity with 5-30 microg/ml of MICs. [3]

Mulberrofuran G shows moderate activity, inhibiting hepatitis B virus (HBV) DNA replication with the IC(50) value of 3.99 uM on the HepG 2.2.15 cell line in vitr.[4]

Mulberrofuran G shows obvious inhibitory activities towards human gastric carcinoma(SGC-7901) cell line.[5]

Mulberrofuran G shows good tyrosinase inhibitory activity.[6]

[Solvent]

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

[HPLC Method][7]

Mobile phase: 0.05% Formic acid in water- 0.05% Formic acid in acetonitrile,gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 30 ℃;

The wave length of determination: 254 nm.

[Storage]

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

[References]

[1] Lee H J, Ryu J, Park S H, *et al. Tuberculosis & Respiratory Diseases, 2014, 77(2):65-72.*

[2] Jung J W, Ko W M, Park J H, *et al. Arch. Pharm. Res., 2015, 38(11):2066-75.*

[3] Sohn H Y, Son K H, Kwon C S, *et al. Phytomed. Int. J.Phytoth. Phytopharmacol. 2004, 11(7-8):666-72.*

[4] Geng C A, Ma Y B, Zhang X M, *et al. J. Agr. Food Chem., 2012, 60(33):8197-202.*

[5] Mei W, Li H, Zhong H, *et al. Journal of Tropical & Subtropical Botany, 2011, 19(4):351-4.*

[6] Zheng Z P, Cheng K W, Qin Z, *et al. J. Agr. Food Chem, 2010, 58(9):5368-73.*

[7] Geng C A, Chen H, Chen X L, *et al. Int. J.Mass Spectrom., 2014, 361(1):9-22.*

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