[ Product Information ]

Name: Linarin; Buddleoside
Catalog No.: CFN98738
Cas No.: 480-36-4
Purity: > 98%
M.F: C_{28}H_{32}O_{14}
M.W: 592.6

Physical Description: Yellow powder


[ Intended Use ]

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

[ Source ]

The herb of Uncaria sinensis (Oliv.) Havil.
**Biological Activity or Inhibitors**

Linarin is a flavone glycoside in the plants Flos chrysanthemi indici, Buddleja officinalis, Cirsium setosum, Mentha arvensis and Buddleja davidii, possesses analgesic, antipyretic, anti-inflammatory and neuroprotective activities. \(^1\)

Linarin is known to have anti-acetylcholinesterase effects, prevents Aβ(25-35)-induced neurotoxicity through the activation of PI3K/Akt, which subsequently inhibits GSK-3β and up-regulates Bcl-2, may be a potent therapeutic compound against Alzheimer's disease acting through both acetylcholinesterase inhibition and neuroprotection.\(^2\)

Linarin has dose-dependent analgesic and anti-inflammatory activities.\(^3\)

Linarin can protect osteoblasts against hydrogen peroxide-induced osteoblastic dysfunction and may exert anti-resorptive actions, at least in part, via the reduction of RANKL and oxidative damage.\(^4\)

Linarin induces the osteogenic differentiation and mineralization of MC3T3-E1 osteoblastic cells by activating the BMP-2/RUNX2 pathway through PKA signaling in vitro and protected against OVX-induced bone loss in vivo, suggests that linarin is a useful natural alternative for the management of postmenopausal osteoporosis.\(^5\)

**Solvent**

Pyridine, DMSO, Methanol, Ethanol, Hot water, etc.

**HPLC Method**\(^6\)

Mobile phase: Methanol- H2O- Glacial acetic acid =26:23:1;

Flow rate: 1.0 ml/min;

Column temperature: 25 °C;

The wave length of determination: 334 nm.

**Storage**

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


Contact

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