

Tenuifolin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Tenuifolin

Catalog No.: CFN98157

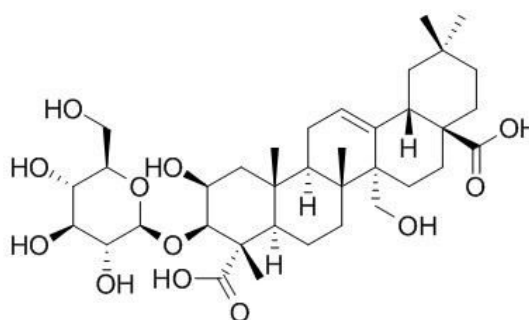
Cas No.: 20183-47-5

Purity: > 98%

M.F: C₃₆H₅₆O₁₂

M.W: 680.37

Physical Description: White powder



Synonyms: (4S)-3β-(β-D-Glucopyranosyloxy)-2β,27-dihydroxyolean-12-ene-23,28-dioic acid; 2β,27-Dihydroxy-3β-(β-D-glucopyranosyloxy)oleana-12-ene-23,28-dioic acid.

[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 root of *Polygala tenuifolia* Willd.

[Biological Activity or Inhibitors]

Tenuifolin is an effective compound from tenuigenin, is commonly used in traditional Chinese herbal medicine for memory loss, has no inherent toxicity to either the transfected or wild type cells at the effective concentrations, it inhibits amyloid- β secretion in vitro.^[1]

Tenuifolin is one of the active constituents of HPS against the neurotoxicity induced by A β 25-35 peptides in vitro and in vivo, it possesses neuroprotective effects against A β 25-35-induced apoptosis in PC12 cells and significantly improves the cognitive deficits induced by the intrahippocampal injection of A β 25-35 in mice. ^[2]

[Solvent]

Pyridine, DMSO, Ethanol, Methanol.

[HPLC Method]^[3]

Mobile phase: Methanol: 0.05% Phosphoric acid H₂O=65:35;

Flow rate: 1.0 ml/min;

Column temperature: Room temperature;

The wave length of determination: 202 nm.

[Storage]

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

[References]

[1] Lv J, Jia H, Jiang Y, *et al. Acta Physiol.*, 2009, 196(4):419-25.

[2] Liu Y M, Li Z Y, Hu H, *et al. Pharmacol. Biochem. Be.*, 2015,128:14-22.

[3] Dong X B, Li J, Jiang Y, *et al. China Journal of Chinese Materia Medica*, 2007, 32(16):

1647-9.

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