[ **Product Information** ]

**Name:** Tenuifolin

**Catalog No.**: CFN98157

**Cas No.**: 20183-47-5

**Purity:** > 98%

**M.F:** C_{36}H_{56}O_{12}

**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 Aβ 25-35 peptides in vitro and in vivo, it possesses neuroprotective effects against Aβ 25-35-induced apoptosis in PC12 cells and significantly improves the cognitive deficits induced by the intrahippocampal injection of Aβ 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 wavelength of determination: 202 nm.

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

[References]
[ Contact ]

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