

## Tenuifoliside A Datasheet

5<sup>th</sup> Edition (Revised in January, 2017)

### [ Product Information ]

**Name:** Tenuifoliside A

**Catalog No.:** CFN90770

**Cas No.:** 139726-35-5

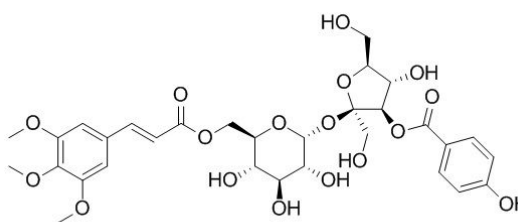
**Purity:** > 95%

**M.F:** C<sub>31</sub>H<sub>38</sub>O<sub>17</sub>

**M.W:** 682.6

**Physical Description:** Powder

**Synonyms:**



### [ Intended Use ]

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

### [ Source ]

The roots of *Polygala tenuifolia*.

### [ Biological Activity or Inhibitors ]

Tenuifoliside A has neuroprotective effect, it induces neurite extension of PC12 cells and

suggests that activation of the MEK/ERK/CREB and PI3K/Akt signaling pathways is involved in this process.<sup>[1]</sup>

Tenuifoliside A protects C6 cells from CORT-induced damage, and the neuroprotective mechanism may be associated with the activation of Bcl-2 and suppressing Bax and the activity of Caspase-3 via ERK pathway.<sup>[2]</sup>

### **[ Solvent ]**

Pyridine, Methanol, Ethanol, etc.

### **[ HPLC Method ]<sup>[3]</sup>**

Mobile phase: 0.1% Formic acid in water- Acetonitrile, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 330 nm.

### **[ Storage ]**

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

### **[ References ]**

[1] Liu X, Wang X, Lu J. *Mol. Med. Rep.*, 2015, 12(5):7637-42

[2] Yu B Y, Dong X Z, Hu Y, *et al. Chin. Pharm. Bull.*, 2013, 29(4):506-11.

[3] Jiang Q, Li H F, Liang X, *et al. Chinese Traditional Patent Medicine*, 2015, 37(2):360-4.

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