

## Polyphyllin VI Datasheet

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

### [ Product Information ]

**Name:** Polyphyllin VI

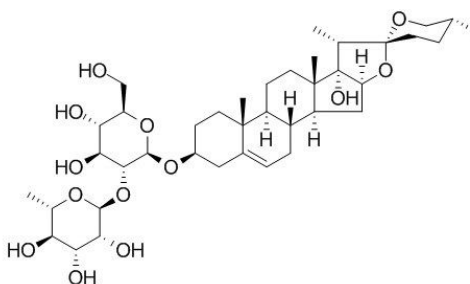
**Catalog No.:** CFN99954

**Cas No.:** 55916-51-3

**Purity:** >=98%

**M.F:** C<sub>39</sub>H<sub>62</sub>O<sub>13</sub>

**M.W:** 738.91



**Physical Description:** White cryst.

**Synonyms:** (3b,25R)-17-Hydroxyspirost-5-en-3-yl 2-O-(6-deoxy-α-L-mannopyranosyl)-;

Polygonatoside B3; Saponin Tb.

### [ Intended Use ]

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

### [ Source ]

The rhizomes of *Paris yunnanensis* Franch.

### [ Biological Activity or Inhibitors ]

Polyphyllin VI and polyphyllin VII possess anti-cancer activities, they exhibits strong inhibitory effects on lung cancer cell growth in vitro and in vivo by inducing G2/M cell cycle arrest and triggering apoptosis.<sup>[1]</sup>

Polyphyllin VI can inhibit 1,2-dimethylhydrazine(DMH)/dextran sodium sulfate(DSS)-induced colon tumor formation in institute of Cancer Research(ICR) mice partly through inducing apoptosis of abnormal colonic epithelial cells via the intrinsic pathway of apoptosis.<sup>[2]</sup>

### **[ Solvent ]**

Pyridine, Methanol, Ethanol, etc.

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

Mobile phase: Acetonitrile-H<sub>2</sub>O, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 25 °C;

The wave length of determination: 203 nm.

### **[ Storage ]**

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

### **[ References ]**

[1] Lin Z, Liu Y, Li F, *et al. Phytother. Res.*, 2015, 29(10):1568-76.

[2] Li Z Q. *World Chinese Journal of Digestology*, 2014, 22(29):4393.

[3] Chen X K. *Chinese Journal of Modern Applied Pharmacy*, 2013, 30(12):1346-9.

### **[ Contact ]**

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