

## Ziyuglycoside II Datasheet

4<sup>th</sup> Edition (Revised in July, 2016)

### [ Product Information ]

**Name:** Ziyuglycoside II

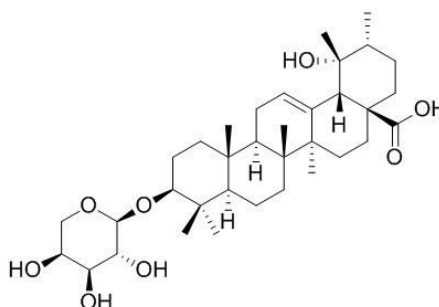
**Catalog No.:** CFN98465

**Cas No.:** 35286-59-0

**Purity:** >=98%

**M.F:** C<sub>35</sub>H<sub>56</sub>O<sub>8</sub>

**M.W:** 604.8



**Physical Description:** Powder

**Synonyms:** (3 $\beta$ )-3-( $\alpha$ -L-Arabinopyranosyloxy)-19-hydroxyurs-12-en-28-oic acid.

### [ Intended Use ]

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

### [ Source ]

The roots of *Sanguisorba officinalis*.

### [ Biological Activity or Inhibitors ]

Ziyuglycoside II is one of the major active compounds of *Sanguisorba officinalis* L., which

has a wide range of clinical applications including hemostasis, antibiosis, anti-inflammation and anti-oxidation; it also has inhibitory effect on the growth of MDA-MB-435 cells, which may become a potential therapeutic approach of breast cancer in the future.<sup>[1]</sup>

Ziyuglycoside II induces cell cycle arrest and apoptosis through activation of ROS/JNK pathway in human breast cancer cells.<sup>[2]</sup>

Ziyuglycoside II methyl ester possess improved anti-diabetic properties, and has hepato-renal protective activities in type 2 diabetes.<sup>[3]</sup>

### **[ Solvent ]**

Pyridine, Methanol, Ethanol, etc.

### **[ HPLC Method ]<sup>[4]</sup>**

Mobile phase: Acetonitrile- Methanol-0.5%Phosphoric acid H<sub>2</sub>O,gradient elution;

Flow rate: 1.2 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 203 nm.

### **[ Storage ]**

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

### **[ References ]**

[1] Zhu X, Wang K, Zhang K, *et al. Int. J. Mol. Sci.*, 2013, 14(9):18041-55.

[2] Zhu X, Wang K, Zhang K, *et al. Toxicol. Lett.*, 2014, 227(1):65-73.

[3] Ju S D, Yeon H S, Myung-Hyun K, *et al. Nutrients*, 2015, 7(7):5469-83.

[4] Wu J H, Li Y S. *Chinese Traditional Patent Medicine*, 2015, 37 (1): 112-5.

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