

## Chikusetsusaponin IV Datasheet

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

### [ Product Information ]

**Name:** Chikusetsusaponin IV

**Catalog No.:** CFN90542

**Cas No.:** 7518-22-1

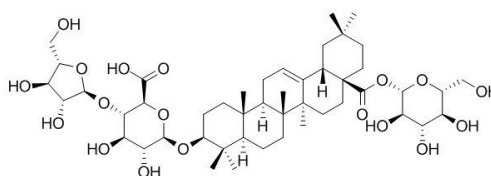
**Purity:** > 98%

**M.F:** C<sub>47</sub>H<sub>74</sub>O<sub>18</sub>

**M.W:** 927.08

**Physical Description:** Powder

**Synonyms:** 28-(β-D-Glucopyranosyloxy)-28-oxoolean-12-en-3β-yl-4-O-α-L-arabinofuranosyl-β-D-glucopyranosiduronic acid; Oleanane, beta-D-glucopyranosiduronic acid deriv.



### [ Intended Use ]

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

### [ Source ]

The roots of *Panax japonicus* C. A. Mey.

### [ Biological Activity or Inhibitors ]

Chikusetsusaponin IV can inhibit renin activity, renin is the most important enzyme in the renin-angiotensin system.<sup>[1]</sup>

Chikusetsusaponin IV and V, whose genin is oleanolic acid, exhibit weak hemolytic activities.<sup>[2]</sup>

Chikusetsusaponin IV, chikusetsusaponin V, and chikusetsusaponin IVa are  $\alpha$ -glucosidase inhibitors, they may be used for prevention and treatment of diabetes mellitus. <sup>[3]</sup>

### **[ Solvent ]**

Pyridine, Methanol, Ethanol, etc.

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

Mobile phase: Acetonitrile- 10 mM K-phosphate buffer (pH 5.80), gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 196 nm.

### **[ Storage ]**

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

### **[ References ]**

[1] Takahashi S, Hori K, Hokari M, *et al. Biomed. Res.*, 2010, 31(2):155-9.

[2] Hase J, Kobashi K, Mitsui K, *et al. Journal of Pharmacobio-Dynamics*, 1981, 4(11): 833-7.

[3] Li S, Tang Y, Liu C, *et al. J. Sep. Sci.*, 2015, 38(12):2014- 23.

[4] Zhu S, Zou K, Cai S, *et al. Chem. Pharmaceut. Bull.*, 2004, 52(8):995-8.

### **[ Contact ]**

**Address:**

S5-3 Building, No. 111, Dongfeng Rd.,  
Wuhan Economic and Technological Development Zone,  
Wuhan, Hubei 430056,  
China

**Email:** [info@chemfaces.com](mailto:info@chemfaces.com)**Tel:** +86-27-84237783**Fax:** +86-27-84254680**Web:** [www.chemfaces.com](http://www.chemfaces.com)**Tech Support:** [service@chemfaces.com](mailto:service@chemfaces.com)