

## Asperuloside Datasheet

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

### [ Product Information ]

**Name:** Asperuloside

**Catalog No.:** CFN99467

**Cas No.:** 14259-45-1

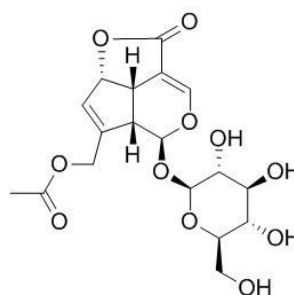
**Purity:** > 98%

**M.F:** C<sub>18</sub>H<sub>22</sub>O<sub>11</sub>

**M.W:** 414.4

**Physical Description:** Powder

**Synonyms:** Rubichloric-acid; Asperulin; (2aS)-2a,4aα,5,7bα-Tetrahydro-4-acetoxymethyl-5α-(β-D-glucopyranosyloxy)-1H-2,6-dioxacyclopent[cd]inden-1-one; 1H-2,6-Dioxacyclopentcdinden-1-one.



### [ Intended Use ]

1. Reference standards;
2. Pharmacological research;
3. Food and cosmetic research;
4. Synthetic precursor compounds;
5. Intermediates & Fine Chemicals;
6. Ingredient in supplements, beverages;
7. Others.

### [ Source ]

The herb of *Galium aparine* L.

### **[ Biological Activity or Inhibitors ]**

Asperuloside(ASP), an iridoid glycoside found in *Herba Paederiae*, is a component from traditional Chinese herbal medicine, it exerts its anti-inflammatory effect in correlation with inhibition of a pro-inflammatory mediator through suppressing nuclear factor kappa-B (NF- $\kappa$ B) nuclear translocation and MAPK phosphorylation in a dose-dependent manner.<sup>[1]</sup> Chronic administration of Asperuloside stimulates anti-obesity and anti-metabolic syndrome activity in HFD-fed rats across several organs, similar to *Eucommia* leaf extract (ELE) administration, thus, ASP may be an important ingredient of ELE.<sup>[2]</sup>

### **[ Solvent ]**

Pyridine, DMSO, Ethanol, Methanol.

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

Mobile phase: Acetonitrile-0.2% Aqueous phosphoric acid=5:95 ;

Flow rate: 0.8 ml/min;

Column temperature: 30 °C;

The wave length of determination: 240 nm.

### **[ Storage ]**

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

### **[ References ]**

[1] Qiu J, Chi G, Wu Q, *et al. Int. Immunopharmacol.*, 2016, 31:109-15.

[2] Fujikawa T, Hirata T, Hosoo S, *et al. J. Nutr. Sci.*, 2012, 1:e10.

[3] Gao D, Zhao C C, Li H Y *et al. Chinese Journal of Pharmaceutical Analysis*, 2010, 30(9):1654-7.

## **[ Contact ]**

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