

## Geniposide Datasheet

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

### [ Product Information ]

**Name:** Geniposide

**Catalog No.:** CFN98261

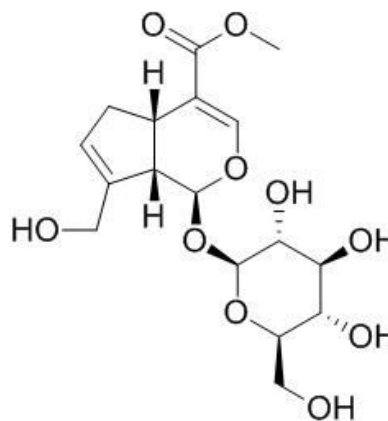
**Cas No.:** 24512-63-8

**Purity:** > 98%

**M.F:** C<sub>17</sub>H<sub>24</sub>O<sub>10</sub>

**M.W:** 388.4

**Physical Description:** Powder



**Synonyms:** Methyl(1R,2S,6S)-9-(hydroxymethyl)-2-[(2S,3R,4S,5S,6R)-3,4,5-trihydroxy-6-(hydroxymethyl)oxan-2-yl]oxy-3-oxabicyclo[4.3.0]nona-4,8-diene-5-carboxylate.

### [ 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. Aromatics;
8. Others.

### [ Source ]

The fruit of *Gardenia jasminoides Ellis*.

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

Geniposide, a major iridoid found in fruit, is widely used in Asian countries for its anti-inflammatory, and anti-apoptotic activities, the anti-apoptotic activities is due to its modulation of and -related factors (p53, Bax, Bcl-2 and Caspase-3) in LPS-induced mouse mastitis. <sup>[1]</sup>

Geniposide, an agonist for GLP-1 receptor, regulates expression of anti-oxidative proteins including HO-1 and Bcl-2 by activating the transcriptor of p90RSK via MAPK signaling pathway in PC12 cells.<sup>[2]</sup>

Geniposide is highly effective in inhibiting acute lung injury and may be a promising potential therapeutic reagent for acute lung injury treatment.<sup>[3]</sup>

Geniposide inhibits high glucose-induced cell adhesion through the NF- $\kappa$ B signaling pathway in human umbilical vein endothelial cells.<sup>[4]</sup>

Geniposide may attenuate memory deficits through the suppression of mitochondrial oxidative stress, thus, geniposide may be a potential therapeutic reagent for halting and preventing Alzheimer's disease progress.<sup>[5]</sup>

### **[ Solvent ]**

Pyridine, DMSO, Ethanol, Methanol.

### **[ HPLC Method ]<sup>[6]</sup>**

Mobile phase: Methanol -H<sub>2</sub>O=27:73 ;

Flow rate: 1.0 ml/min;

Column temperature: 35 °C;

The wave length of determination: 240 nm.

### **[ Storage ]**

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

## **[ References ]**

- [1] Song X, Guo M, Wang T, *et al. Life Sci.*, 2014, 119(1-2):9-17.
- [2] Liu J, Fei Y, Zheng X, *et al. Neurochem. Int.*, 2007, 51(6-7):361-9.
- [3] Fu Y, Liu B, Liu J, *et al. Int. Immunopharmacol.*, 2012, 14(4):792-8.
- [4] Wang G F, Wu S Y, Wei X, *et al. Acta Pharmacol. Sin.*, 2010, 31(8):953-62.
- [5] Lv C, Liu X, Liu H, *et al. Curr. Alzheimer Res.*, 2014, 11(6):580-7.
- [6] Liao Y H, Han F, Li M. *Drugs & Clinic*, 2013, 28(2):191-3.

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