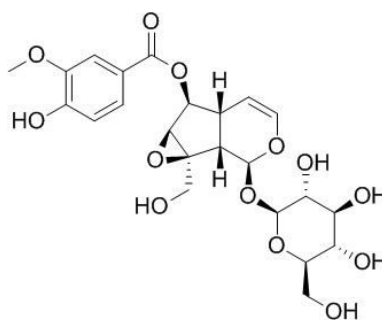


## Picroside II Datasheet

5<sup>th</sup> Edition (Revised in January, 2017)**[ Product Information ]****Name:** Picroside II**Catalog No.:** CFN99566**Cas No.:** 39012-20-9**Purity:** >=98%**M.F:** C<sub>23</sub>H<sub>28</sub>O<sub>13</sub>**M.W:** 512.47**Physical Description:** White powder

**Synonyms:** 6-Vanilloylcatalpol; Vanilloylcatalpol; Amphicoside II; beta-D-Glucopyranoside, 1a,1b,2,5a,6,6a-hexahydro-6-((4-hydroxy-3-methoxybenzoyl)oxy)-1a-(hydroxymethyl)oxir eno(4,5)cyclopenta(1,2-c)pyran-2-yl,(1aS-(1aalpha,1bbeta,2beta,5abeta,6beta,6aalpha))-

**[ Intended Use ]**

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

**[ Source ]**The roots of *Picrorhiza scrophulariiflora*.

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

Picoside I or II enhances nerve growth factor (NGF)-induced neurite outgrowth from PC12D cells, probably by amplifying a down-stream step of MAP kinase in the NGF receptor-mediated intracellular MAP kinase-dependent signaling pathway.<sup>[1]</sup>

Picoside II (intravenous treatment ) may be beneficial to inhibit neuronal apoptosis and, thus, to improve the neurological function of rats upon cerebral ischemia reperfusion injury.<sup>[2]</sup>

Picoside II can protect hepatocytes against injury and prevent hepatocytes from apoptosis, it may be upregulating the bcl-2 gene expression and antioxidation. <sup>[3]</sup>

Picoside II protects cardiomyocytes against oxidative-stress injury induced by H/R through reduction of ROS production and calcium accumulation and enhancement of the activity of antioxidant defense.<sup>[4]</sup>

Picoside II has anti-inflammatory effect .<sup>[5]</sup>

## **[ Solvent ]**

Pyridine, Methanol, Ethanol, etc.

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

Mobile phase: Acetonitrile-H<sub>2</sub>O-Acetic acid=18:82:0.4 ;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 265 nm.

## **[ Storage ]**

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

## **[ References ]**

[1] Li P, Matsunaga K, Yamakuni T, *et al. Eur. J. Pharmacol.*, 2000, 406(2):203-8.

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[3] Gao H, Zhou Y W. *Acta Pharm. Sin.*, 2005, 26(6):729-36.

[4] Meng F J, Hou Z W, Li Y, *et al. Pharm. Biol.*, 2012, 50(10):1226-32.

[5] Saravanan S, Islam V I H, Babu N P, *et al. Eur. J. Pharmaceut. Sci.*, 2014, 56(1):70-86.

[6] Cheng S, Huang J, He J. *Pharmazie*, 2007, 62(8):577-9.

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