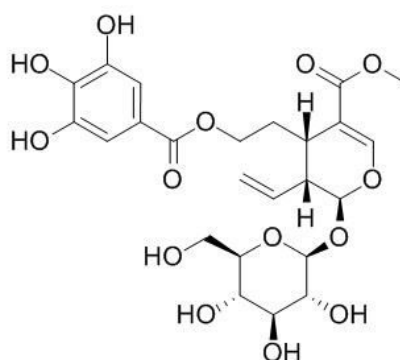


Cornuside Datasheet

5th Edition (Revised in January, 2017)**[Product Information]****Name:** Cornuside**Catalog No.:** CFN98159**Cas No.:** 131189-57-6**Purity:** >=95%**M.F:** C₂₄H₃₀O₁₄**M.W:** 542.49**Physical Description:** Powder

Synonyms: Methyl(2R,3S,4R)-3-ethenyl-4-[2-(3,4,5-trihydroxybenzoyl)oxyethyl]-2-[(2S,3R,4S,5S,6R)-3,4,5-trihydroxy-6-(hydroxymethyl)oxan-2-yl]oxy-3,4-dihydro-2H-pyran-5-carboxylate.

[Intended Use]

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

[Source]

The fruits of *Cornus officinalis* Sieb. et Zucc.

[Biological Activity or Inhibitors]

Cornuside has antiseptic therapeutic effect, which is mediated by decreased local and systemic levels of a wide spectrum of inflammatory mediators, suggests that cornuside could as a new immunomodulatory drug that has the capacity to inhibit the inflammatory response in sepsis.^[1]

Cornuside has protective potential against cerebral ischemic injury, and its protective effects may be due to the suppression of intracellular Caelevation and caspase-3 activity, and improvements in mitochondrial energy metabolism and antioxidant properties.^[2]

Cornuside has vasorelaxant and anti-inflammatory effects, it dilates vascular smooth muscle and suppresses the vascular inflammatory process via endothelium-dependent nitric oxide (NO)/cGMP signaling.^[3]

Cornuside protects the liver from CCl₄ -induced acute hepatotoxicity, perhaps due to its ability to restore the CYP2E1 function and suppress inflammatory responses, in combination with its capacity to reduce oxidative stress.^[4]

Cornuside appears to protect the rat from myocardial ischemia and reperfusion (I/R) injury by acting as an anti-inflammatory agent, suggests that cornuside may be used therapeutically in the setting of myocardial I/R where inflammation and oxidant injury are prominent.^[5]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method]^[6]

Mobile phase: Acetonitrile-H₂O, gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 240 nm.

[Storage]

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

[References]

- [1] Jiang W L, Chen X G, Zhu H B, *et al. Planta Med.*,2009,75(75):614-9.
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- [3] Kang D G, Mi K M, Li H C, *et al. The FASEB Journal*, 2006, 20(4):A668.
- [4] Song S Z, Yun H C, Jin G Y, *et al. Biosci. Biotechnol. Biochem.*,2011;75(4):656-61.
- [5] Jiang W L, Zhang S M, Tang X X, *et al. Phytomedicine.*,2011 Feb 15;18(4):266-71.
- [6] He J N, Liu X, Mou Z L, *et al. Zhong Yao Cai*, 2011 Jul;34(7):1118-22.

[Contact]

Address:

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

Email: info@chemfaces.com

Tel: +86-27-84237783

Fax: +86-27-84254680

Web: www.chemfaces.com

Tech Support: service@chemfaces.com