[**Product Information**]

**Name:** Cornuside  
**Catalog No.:** CFN98159  
**Cas No.:** 131189-57-6  
**Purity:** >=95%  
**M.F:** C_{24}H_{30}O_{14}  
**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 antisepsis 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 appeares 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℃, Protected from air and light, refrigerate or freeze.

[ References ]


[ 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