[ **Product Information** ]

**Name:** Gentiopicroside  
**Catalog No.:** CFN98047  
**Cas No.:** 20831-76-9  
**Purity:** > 98%  
**M.F:** C_{16}H_{20}O_{9}  
**M.W:** 356.32  

**Physical Description:** Powder  
**Synonyms:** Gentiopicrin; Gentiopicroin;  
(5beta-trans)-6-(β-D-Glucopyranosyloxy)-5,6-dihydro-5-vinyl-1H,3H-pyrano[3,4-c]pyran-1-one;  
1H,3H-Pyrano[3,4-c]pyran-1-one,5-ethenyl-6-(β-D-glucopyranosyloxy)-5,6-dihydro-(5R-trans)-;  

[ **Intended Use** ]

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

[ **Source** ]
The roots of *Gentiana manshurica* Kitag.

**[Biological Activity or Inhibitors]**

Gentiopicroside, a secoiridoid glycoside isolated from the methanol extract of the aerial parts of *Centaurium erythraea*, has antibacterial and free radical scavenging activities, it also has general toxicity in brine shrimp lethality.[1]

Gentiopicroside has smooth muscle relaxing activity.[2]

Gentiopicroside exhibits analgesic activities and attenuates morphine rewarding effect through downregulation of GluN2B receptors in nucleus accumbens. [3]

Gentiopicroside has been developed into a novel traditional Chinese drug named gentiopicroside injection, and it was approved for the treatment of acute jaundice and chronic active hepatitis by SFDA.[4]

Gentiopicroside exhibits obvious anti-inflammatory effects, it can decrease the permeability of celiac blood capillary, and reduce the paw swelling induced by carrageenan and zymosan A; it can prevent interleukin-1 beta induced inflammation response in rat articular chondrocyte; gentiopicroside treatment can exert anti-inflammatory effects on experimental acute colitis through attenuating the expression levels of TNF-α, IL-1β, IL-6, iNOS and COX-2, and it may present the therapeutic potential in the treatment of colitis.[5-7]

**[Solvent]**

Pyridine, Methanol, Ethanol, etc.

**[HPLC Method]**[8]

Mobile phase: Acetonitrile-0.03% Phosphoric acid H2O, gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wavelength of determination: 254 nm.
[Storage]
2-8°C, 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