[ **Product Information** ]

**Name:** Vicenin -2  
**Catalog No.:** CFN92031  
**Cas No.:** 23666-13-9  
**Purity:** > 98%  
**M.F:** C_{27}H_{30}O_{15}  
**M.W:** 594.5  

**Physical Description:** Yellow powder  

**Synonyms:** 5,7-dihydroxy-2-(4-hydroxyphenyl)-6,8-bis[(2S,3R,4R,5S,6R)-3,4,5-trihydroxy-6-(hydroxymethyl)-2-oxanyl]-1-benzopyran-4-one.

[ **Intended Use** ]

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

[ **Source** ]

The herbs of *Chrysanthemi indici L.*
[Biological Activity or Inhibitors]

Vicenin-2 (VCN-2), an active constituent of the medicinal herb Ocimum Sanctum Linn or Tulsi, it can effectively induce anti-proliferative, anti-angiogenic and pro-apoptotic effect in CaP cells (PC-3, DU-145 and LNCaP) irrespective of their androgen responsiveness or p53 status; VCN-2 in combination with docetaxel (DTL) synergistically inhibited the growth of prostate tumors in vivo with a greater decrease in the levels of AR, pIGF1R, pAkt, PCNA, cyclin D1, Ki67, CD31, and increase in E-cadherin; it could as a single agent and in combination with DTL in carcinoma of prostate (CaP). [1]

Vicenin-2 has potential anti-inflammatory activity, can modify LPS-induced total nitrite and TNF-α production, in addition to the LPS-induced translocation of the nuclear factor NF-kB. [2]

Vicenin-2 and scolymoside, can suppress high-glucose (HG)-induced vascular inflammatory processes in human umbilical vein endothelial cells (HUVECs) and mice, HG-induced vascular inflammatory responses are critical events underlying the development of various diabetic complications; therefore, suggests that vicenin-2 and scolymoside have significant therapeutic benefits against diabetic complications and atherosclerosis. [3]

Vicenin-2 or scolymoside can reduce cecal ligation and puncture (CLP)-induced septic mortality and pulmonary injury, indicate that vicenin-2 and scolymoside could be a potential therapeutic agent for treatment of various severe vascular inflammatory diseases via inhibition of the TGFBIp signaling pathway. [4]

Vicenin-2 has antithrombotic and antiplatelet activities. [5]

[Solvent]

Pyridine, DMSO, Methanol, Hot water, etc.

[HPLC Method] [6]

Mobile phase: Methanol-0.1 % Phosphoric acid H2O, gradient elution;

Flow rate: 0.8 ml/min;
Column temperature: 25 °C;

The wavelength of determination: 334 nm.

[ Storage ]

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

[ References ]


[ Contact ]

Address: Email: info@chemfaces.com
S5-3 Building, No. 111, Dongfeng Rd.,
Wuhan Economic and Technological Development Zone,
Wuhan, Hubei 430056,
China
Tel: +86-27-84237783
Fax: +86-27-84254680
Web: www.chemfaces.com
Tech Support: service@chemfaces.com