[ **Product Information** ]

**Name:** 3,4,5-Tricaffeoylquinic acid  
**Catalog No.:** CFN90238  
**Cas No.:** 86632-03-3  
**Purity:** >98%  
**M.F:** C_{34}H_{30}O_{15}  
**M.W:** 678.59  

**Physical Description:** Powder  
**Synonyms:** (1alpha,3R,4alpha,5R)-3,4,5-Tris[(2E)-3-(3,4-dihydroxyphenyl)-1-oxo-2-propen-1-yl]oxy]-1-hydroxycyclohexanecarboxylic acid; 3,4,5-Tri-O-caffeoylquinic acid.

[ **Intended Use** ]

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

[ **Source** ]

The herbs of *Xanthium sibiricum Patrin*.

[ **Biological Activity or Inhibitors** ]
3,4,5-Tricaffeoylquinic acid (TCQA) has inhibitory effect on human immunodeficiency virus (HIV) Type 1 integrase.[1]

3,4,5-Tricaffeoylquinic acid seems to attenuate the TNF-α-stimulated inflammatory mediator production in keratinocytes by suppressing the activation of Akt and NF-κB pathways which may be mediated by reactive oxygen species, suggests that 3,4,5-tricaffeoylquinic acid may exert an inhibitory effect against the pro-inflammatory mediator-induced skin disease.[2]

3,4,5-Tri-caffeoylquinic acid shows a neuroprotective effect against Aβ-induced cell death through the upregulation of glycolytic enzyme mRNA as well as ATP production activation. [3]

3,4,5-Tri-caffeoylquinic acid is a prominent candidate that exerts the effect and shows a strong maltase-specific inhibition with an IC(50) value of 24 microM.[4]

[ Solvent ]

Pyridine, Methanol, Ethanol, etc.

[ HPLC Method ][5]

Mobile phase: Methanol- 0.2% Formic acid in water, gradient elution;
Flow rate: 1.0 ml/min;
Column temperature: 40 °C;
The wavelength of determination: 340 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