

# Isochlorogenic acid C(4,5) Datasheet

4<sup>th</sup> Edition (Revised in July, 2016)

## [ Product Information ]

**Name:** Isochlorogenic acid C(4,5)

**Catalog No.:** CFN90354

**Cas No.:** 57378-72-0

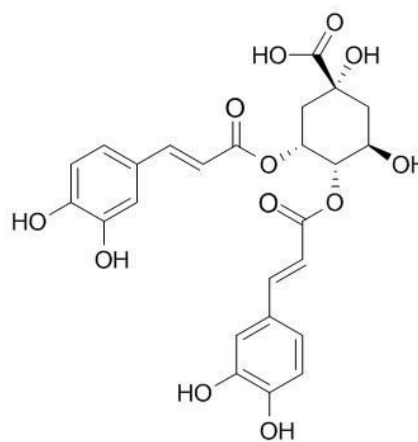
**Purity:** > 98%

**M.F:** C<sub>25</sub>H<sub>24</sub>O<sub>12</sub>

**M.W:** 516.45

**Physical Description:** Powder

**Synonyms:** 4,5-Dicaffeoylquinic acid; 4,5-Bis(3,4-dihydroxycinnamoyl)quinic acid.



## [ Intended Use ]

1. Reference standards;
2. Pharmacological research;
3. Food research;
4. Cosmetic research;
5. Synthetic precursor compounds;
6. Intermediates & Fine Chemicals;
7. Ingredient in supplements, beverages;
8. Others.

## [ Source ]

The herbs of *Lagdera alata*.

## **[ Biological Activity or Inhibitors ]**

Isochlorogenic acid C(ICAC) possesses potent hepatoprotective and anti-HBV effects; the anti-apoptotic and anti-injury effects of ICAC could be achieved by its anti-oxidative properties and interfering the caspase-3 and transformed growth factor beta-1(TGFbeta-1) expressions; the anti-HBV target of ICAC may mainly be at the downstream links of HBV replication process and is probably associated with blocking translation step; HO-1 induction may contribute to anti-hepatitis B effect of ICAC.<sup>[1]</sup>

Isochlorogenic acid C has antiinflammatory activities, it can decrease LPS-induced NO production in RAW264.7 cell, and inhibit TPA-induced ear edema. <sup>[2]</sup>

## **[ Solvent ]**

Pyridine, Methanol, Ethanol, etc.

## **[ HPLC Method ]<sup>[3]</sup>**

Mobile phase: Acetonitrile-Methanol-0.1% Phosphoric acid =20: 6.5: 73.5;

Flow rate: 1.0 ml/min;

Column temperature: 25 °C;

The wave length of determination: 326 nm.

## **[ Storage ]**

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

## **[ References ]**

[1] Hu S Q, Wu Y H, Hao B J, *et al. J. Med. Plants. Res.* 2012, 6(16):3199-206.

[2] Wang H, Li D, Du Z, *et al. Food Sci. Biotechnol.*, 2015, 24(3):1131-8.

[3] Liu C, Li Y, Bao R, *et al. Biomed. Res.*, 2014, 25(4):477-82.

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