

## 3-O-Feruloylquinic acid Datasheet

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

### [ Product Information ]

**Name:** 3-O-Feruloylquinic acid

**Catalog No.:** CFN92393

**Cas No.:** 1899-29-2

**Purity:** > 98%

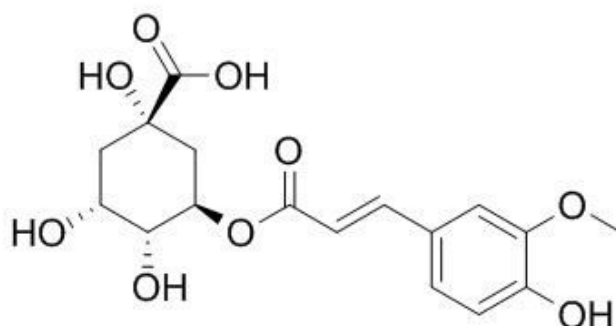
**M.F:** C<sub>17</sub>H<sub>20</sub>O<sub>9</sub>

**M.W:** 368.3

**Physical Description:** Powder

**Synonyms:**

(1S,3S,4S,5S)-1,3,4-trihydroxy-5-[(E)-3-(4-hydroxy-3-methoxyphenyl)-1-oxoprop-2-enoyl]-1-cyclohexanecarboxylic acid



### [ Intended Use ]

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

### [ Source ]

The fruits of *Coffea canephora* var. *Robusta*

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

3-O-Feruloylquinic acid could be a starting basis for new Microsomal prostaglandin E synthase-1 (mPGES-1) inhibitors.<sup>[1]</sup>

3-O-Feruloylquinic acid, is a secondary-metabolic compound isolated from winter wheat (*Triticum aestivum* L. cv Chihokukomugi), exhibits antioxidative activity.<sup>[2]</sup>

## **[ Solvent ]**

Pyridine, Methanol, Ethanol, Hot water, etc.

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

Mobile phase: Methanol-H<sub>2</sub>O gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 254 nm.

## **[ Storage ]**

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

## **[ References ]**

[1] Li CH, Chang TT, Sun F, *et al. Mol. Simulat.*, 2011, 37(3):226-36.

[2] Jin, Shigeki, Yoshida, Midori. *Biotechnology Society of hypothermia*, 2005, 51:57-62.

[3] Chen F, Long X, Liu Z, *et al. Sci. World J.*, 2014:568043.

## **[ Contact ]**

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