Natural Products

ChemFaces

Caftaric acid Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Caftaric acid

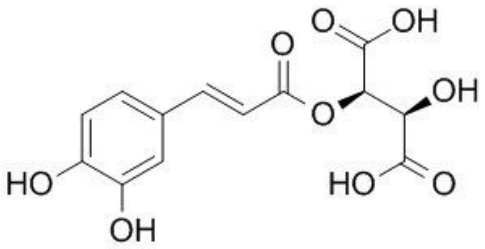
Catalog No.: CFN00384

Cas No.: 67879-58-7

Purity: >=98%

M.F: $C_{13}H_{12}O_9$

M.W: 312.23



Physical Description: Powder

Synonyms: 2-Caffeoyl-L-tartaric acid;(2R,3R)-2-{[(2E)-3-(3,4-dihydroxyphenyl)prop-2-enoyl]oxy}-3-hydroxybutanedioic acid.

[Intended Use]

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

[Source]

The herbs of *Echinacea purpurea.*

[Biological Activity or Inhibitors]

Caftaric and chlorogenic acids are the major dietary polyphenols present in various foods, they before methamphetamine injections can prevent liver toxicity and oxidative stress where chlorogenic acid is more effective.[1]

Caftaric acid is a component responsible for antimutagenicity in the juice of V. coignetiae towards the carcinogenic heterocyclic amine 3-amino-1-methyl-5H-pyrido[4,3-b]indole (Trp-P-2), it as an inhibitor of the protein-protein interactions mediated by the Src-family kinases.[2]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method][3]

Mobile phase: Acetonitrile-Phosphoric acid , gradient elution;

Flow rate: 1.5 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 254 nm.

[Storage]

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

[References]

[1] Khaled M. M. Koriem, Rowan E. Soliman. *J.Toxicol., 2013, 2014(4):583494-583494.*

[2] Zhang X, Ishida R, Yuhara Y, *et al. Mutation Research/fundamental & Molecular Mechanisms of Mutagenesis, 2011, 723(2):182-9.*

[3] Popescu A, Matei N, Roncea F, *et al. Ovidius University Annals of Chemistry, 2015, 26(1):12-9.*

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