

3-Galloylquinic acid Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: 3-Galloylquinic acid

Catalog No.: CFN92829

Cas No.: 17365-11-6

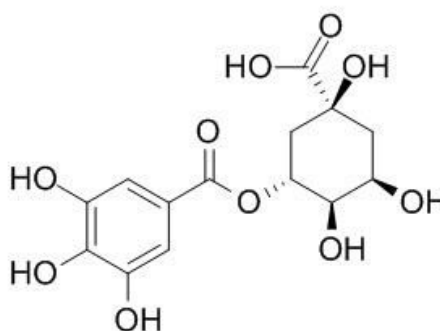
Purity: >=95%

M.F: C₁₄H₁₆O₁₀

M.W: 344.3

Physical Description: Powder

Synonyms: (1S,3R,4R,5R)-1,3,4-Trihydroxy-5-[(3,4,5-trihydroxybenzoyl)oxy]cyclohexane carboxylic acid; Theogallin.



[Intended Use]

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

[Source]

The leaves of *Camellia sinensis*.

[Biological Activity or Inhibitors]

L-theanine- and theogallin(3-Galloylquinic acid)-enriched decaffeinated green tea extract are able to change the physiological pattern of electrical hippocampus activity in a concentration dependent manner ($EC_{50}=3\text{mg/L}$), they can improve cognition at concomitant mental relaxation in man.^[1]

Theogallin, its derivatives, its metabolite quinic acid, the derivatives thereof, its metabolites or the pharmaceutically acceptable salts of said substances can be used for producing a drug for use in the prophylaxis or treatment of neurological and psychiatric diseases of the central nervous system, especially of dementia such as Alzheimer's disease or Parkinson's disease, of depressions and concentration disorders such as attention deficit hyperactivity disorder.^[2]

Theogallin has scavenging radical activity. ^[3]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method]^[4]

Mobile phase: Acetonitrile-0.34%Phosphoric acid H₂O,gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 280 nm.

[Storage]

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

[References]

[1] Dimpfel W, Kler A, Kriesl E, *et al. J. Pharm. Pharmacol.*, 2007, 59(8):1131-6.

[2] Kler A, Zenger R, Dimpfel W. *EP2066314[P]*. 2013.

[3] Wang H, Chen J H, Zhao H Q, *et al.* *Chinese Journal of Analytical Chemistry*, 2009, 37(6):795-800.

[4] Zhang Y J, Yang C R, Zeng S F, *et al.* *Acta Botanica Yunnanica*, 2010, 32(1):77-82.

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