3-Galloylquinic acid Datasheet


[ Product Information ]

Name: 3-Galloylquinic acid
Catalog No.: CFN92829
Cas No.: 17365-11-6
Purity: >=95%
M.F: C_{14}H_{16}O_{10}
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\(_{50}=3\)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**]


[ 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