[**Product Information**]

**Name:** (-)-Gallocatechin gallate

**Catalog No.:** CFN99571

**Cas No.:** 4233-96-9

**Purity:** \( \geq 98\% \)

**M.F.:** \( C_{22}H_{18}O_{11} \)

**M.W.:** 458.37

**Physical Description:** White powder

**Synonyms:** (2S,3R)-5,7-dihydroxy-2-(3,4,5-trihydroxyphenyl)-3,4-dihydro-2H-chromen-3-yl 3,4,5-trihydroxybenzoate.

[**Intended Use**]

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

[**Source**]

The wood of *Acacia catechu* (L.F.) Willd.
[ Biological Activity or Inhibitors]

(-)-Gallocatechin gallate can effectively inhibit cholesterol absorption in rats, it is effective to precipitate cholesterol.[1]

Gallocatechin gallate can decrease osteoclastogenesis at 20 microM, it has positive effects on bone metabolism through inhibiting osteoclast differentiations.[2]

Gallocatechin gallate has anti-adipogenic activities, it can significantly reduce the intracellular lipid droplets and expressions of major adipogenic transcription factors, such as PPAR γ, SREBP-1c and C/EBP α, it also can dose-dependently decrease the intracellular ROS level, attenuate MAPK pathway activation in 3T3-L1 differentiations, decrease the activation of NF-κB, and down-regulate the production of IL-6 and MCP-1 induced by LPS.[3]

Gallocatechin gallate has anti-diabetic effects by increasing sensitivity of insulin.[4]

Gallocatechin gallate has antioxidant activity.[5]

[ Solvent ]

Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

[ HPLC Method ][6]

Mobile phase: 2% Acetic acid in water- Acetonitrile, gradient elution ;
Flow rate: 1.0 ml/min;
Column temperature: 35 ℃;
The wave length of determination: 280 nm.

[ Storage ]

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

[ References ]

[Contact]

Address: Email: info@chemfaces.com
S5-3 Building, No. 111, Dongfeng Rd.,
Wuhan Economic and Technological Development Zone,
Wuhan, Hubei 430056,
China
Tel: +86-27-84237783
Fax: +86-27-84254680
Web: www.chemfaces.com
Tech Support: service@chemfaces.com