

(-)-Epigallocatechin(EGC) Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: (-)-Epigallocatechin(EGC)

Catalog No.: CFN97549

Cas No.: 970-74-1

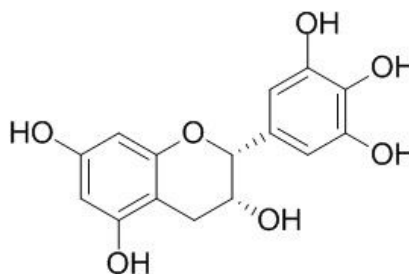
Purity: > 98%

M.F: C₁₅H₁₄O₇

M.W: 306.3

Physical Description: Powder

Synonyms: (2R,3R)-2-(3,4,5-trihydroxyphenyl)-3,4-dihydro-2H-1-benzopyran-3,5,7-triol.



[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Food research;
4. Cosmetic research;
5. Synthetic precursor compounds;
6. Care and daily chemicals;
7. Intermediates & Fine Chemicals;
8. Ingredient in supplements, beverages;
9. Others.

[Source]

The wood of *Acacia catechu* (L.F.) Willd.

[Biological Activity or Inhibitors]

(-)-Epigallocatechin (EGC) can suppress oxidation of plasma low density lipoprotein (LDL) in vitro.^[1]

Epigallocatechin activates haem oxygenase-1 expression via protein kinase Cdelta and Nrf2.^[2]

Cu(2+) with (-)-epigallocatechin (EGC) facilitated DNA cleavage, while Ag+ with EGC showed a strong repressive effect, the other metal ions examined showed little effect.^[3]

[Solvent]

Pyridine, DMSO, Methanol, Acetone, etc.

[HPLC Method]^[4]

Mobile phase: Methanol-0.1% Acetic acid H₂O (pH 2.0)= 75:25,;

Flow rate: 0.5 ml/min;

Column temperature: 30 °C;

The wave length of determination: 278 nm.

[Storage]

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

[References]

[1] Nakagawa K, Okuda S, Miyazawa T. *Biosci. Biotech. Bioch.*, 1997, 61(12):1981-5.

[2] Ogborne R M, Rushworth S A, O'Connell M A. *Biochem. Bioph. Res. Co.*, 2008, 373(4):584-8.

[3] Hayakawa F, Kimura T, Hoshino N, *et al.* *Biosci. Biotech. Bioch.*, 1999, 63(9):1654-6.

[4] Deng YL, Feng L, Lu YC. *Southwest China J. Agr. Sci.*, 2011, 24 (03): 932-5.

[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