

3,8-Di-O-methylellagic acid Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: 3,8-Di-O-methylellagic acid

Catalog No.: CFN98217

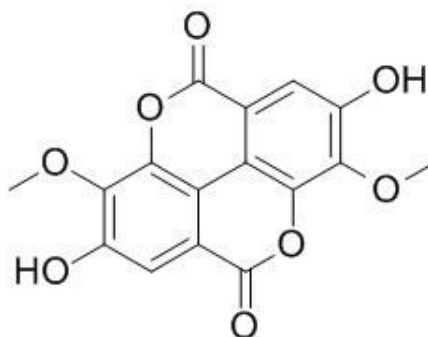
Cas No.: 2239-88-5

Purity: > 95%

M.F: C₁₆H₁₀O₈

M.W: 330.3

Physical Description: Powder



Synonyms: 2,7-Dihydroxy-3,8-dimethoxychromeno[5,4,3-cde]chromene-5,10-dione; 2,7-Dihydroxy-3,8-dimethoxy-4,9-dioxapyrene-5,10-dione; 3,3'-Dimethoxy-4,4'-dihydroxybiphenyl-6,2':6',2-biscarbolactone; 3,3'-Di-O-methylellagic acid.

[Intended Use]

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

[Source]

The peels of *Punica granatum* L.

[Biological Activity or Inhibitors]

3,3'-Di-O-methylellagic acid and 3,3'-di-O-methyl ellagic acid-4-O-beta-D-xylopyranoside exhibit potent induction of neuronal differentiation in neurosphere stem cells with no cytotoxic effect, indicates that they may be useful as pharmacological agents for the treatment of neurodegenerative diseases.^[1]

3,3'-Di-O-methylellagic acid has a lower capacity of stimulating murine peritoneal macrophages to release nitric oxide and tumoural-alpha necrose factor.^[2]

3,3'-Di-O-methylellagic acid shows an inhibitory effect on glucose transport assay in 3T3-L1 cells.^[3]

3,3'-Di-O-methylellagic acid reveals moderate antibacterial activity.^[4]

3,3'-Di-O-methylellagic acid shows strong DPPH radical scavenging activities with SC₅₀ of 123.3 ug/mL.^[5]

[Solvent]

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

[HPLC Method]^[2]

Mobile phase: 0.05% Trifluoroacetic acid in water- 0.05% Trifluoroacetic acid in acetonitrile, gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 254 nm.

[Storage]

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

[References]

[1] Tabopda T K, Ngoupayo J, Liu J W, *et al. Nat. Prod. Commun.*, 2009 Apr; 4(4): 517-20.

- [2] Nasser A L, Carli C B, Rodrigues C M, *et al. Z. Naturforsch. C.*,2008 Nov-Dec;63 (11-12):794-800.
- [3] Bai N, He K, Roller M, *et al. J. Agric. Food Chem.*,2008 Dec 24;56(24):11668-74.
- [4] Zhang W K, Xu J K, Zhang X Q, *et al. Nat. Prod. Res.*,2008 Mar 10;22(4):353-9.
- [5] Kim J E, Jung D S, Lee N H. *Korean Society for Biotechnology and Bioengineering*, 2011,4, 272-272.

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