

Ellagic acid Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Ellagic acid

Catalog No.: CFN98716

Cas No.: 476-66-4

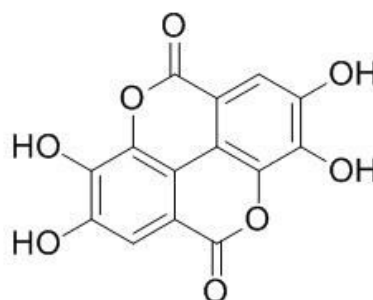
Purity: > 98%

M.F: C₁₄H₆O₈

M.W: 302.2

Physical Description: Yellow powder

Synonyms: 2,3,7,8-Tetrahydroxy-[1]benzopyrano [5,4,3-cde][1]benzopyran-5,10-dione;
Benzoaric acid; Elagostasine; Lagistase; Alizarin yellow; Kajidin; Gallogen.



[Intended Use]

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

[Source]

The roots of *Punica granatum L.*

[Biological Activity or Inhibitors]

Ellagic acid, a naturally occurring plant phenol, inhibits the activity of the direct-acting mutagen N-methyl-N-nitrosourea (MeNU) in *Salmonella typhimurium* TA100, is due to specific inhibition of methylation at the O6 position of guanine through an ellagic acid-duplex DNA affinity-binding mechanism.^[1]

Ellagic acid has anti-oxidant and anti-inflammatory properties, can inhibit key cell functions and activation of PSCs, including platelet-derived growth factor (PDGF)-BB, interleukin (IL)-1beta, tumor necrosis factor (TNF)-alpha, alpha-smooth muscle actin and collagen genes. ^[2]

Ellagic acid has antioxidant and apoptosis-inducing activities, shows high DPPH radical scavenging and peroxidation inhibition activities, significantly reduces HOS cell proliferation, and induces apoptosis evidenced by chromosomal DNA degradation and apoptotic body appearance.^[3]

[Solvent]

Pyridine, DMSO, etc.

[HPLC Method]^[4]

Mobile phase: Methanol- 0.01%Phosphoric acid H2O gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 258 nm.

[Storage]

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

[References]

[1] Dixit R, Gold B. *P. Natl. Acad. Sci. U.S.A.*, 1986, 83(21):8039-43.

[2] Masamune A, Satoh M, Kikuta K, *et al. Biochem. Pharmacol.*, 2005, 70(6):869-78.

[3] Han D H, Lee M J, Kim J H. *Anticancer Res.*, 2006, 26(5A):3601-6.

[4] Ou L M, Seken A, Li K A, *et al. Int. J. Pharm. Res.*, 2015, 42(05):637-41.

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