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: C_{14}H_{16}O_{8}
M.W: 302.2

Physical Description: Yellow powder

Synonyms: 2,3,7,8-Tetrahydroxy-[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 ºC;

The wave length of determination: 258 nm.

[**Storage**]

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

[**References**]


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