

Certificate of Analysis

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Product Name: Ellagic acid

Catalog No.: 3058

Batch No.: 1

CAS Number: 476-66-4

EC Number: 207-508-3

IUPAC Name: 2,3,7,8-Tetrahydroxy-[1]benzopyrano[5,4,3-cde][1]benzopyran-5,10-dione

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{14}H_6O_8 \cdot 2\frac{1}{4}H_2O$

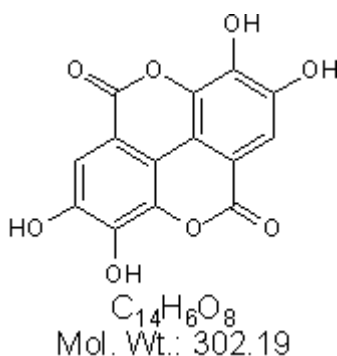
Batch Molecular Weight: 342.72

Physical Appearance:

Solubility: ethanol to 0.65 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

Melting Point: Greater than 300°C

HPLC: Shows 99.6% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	49.07		3.06
Found	49.08		3.11

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Selective, ATP-competitive inhibitor of casein kinase 2 (CK2) (IC₅₀ values are 40, 2900, 3500, 4300 and 9400 nM for CK2, Lyn, PKA, Syk and FGR respectively). Exhibits antioxidant, antitumor and anticarcinogenic activity and also inhibits glutathione S-transferase.

Physical and Chemical Properties:

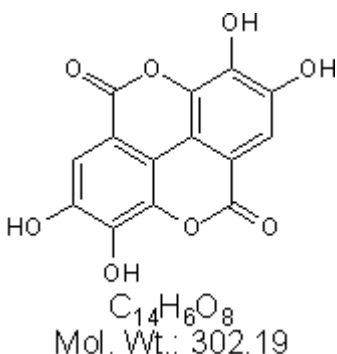
Batch Molecular Formula: C₁₄H₆O₈.2¼H₂O

Batch Molecular Weight: 342.72

Physical Appearance:

Minimum Purity: >99%

Batch Molecular Structure:



References:

Cozza et al (2006) Identification of ellagic acid as potent inhibitor of protein kinase CK2: a successful example of a virtual screening application. *J. Med. Chem.* **49** 2363. PMID: 16610779.

Han et al (2006) Antioxidant and apoptosis-inducing activities of ellagic acid. *Anticancer Res.* **26** 3601. PMID: 17094489.

Hayeshi et al (2007) The inhibition of human glutathione S-transferases activity by plant polyphenolic compounds ellagic acid and curcumin. *Food Chem. Toxicol.* **45** 286. PMID: 17046132.

Storage: Store at RT

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

ethanol to 0.65 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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