

Product Name: Piceatannol

Catalog No.: 1554

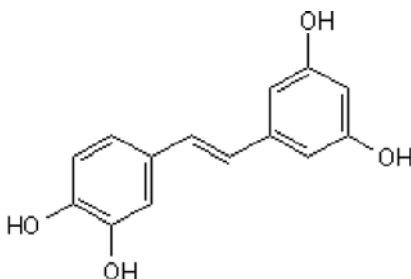
Batch No.: 8

CAS Number: 10083-24-6

IUPAC Name: 4-[(1E)-2-(3,5-Dihydroxyphenyl)ethenyl]-1,2-benzenediol

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₄H₁₂O₄
Batch Molecular Weight: 244.25
Physical Appearance: Beige solid
Solubility: ethanol to 100 mM
 DMSO to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.5% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	68.85	4.95	0
Found	68.44	4.8	0

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

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Description:

Anti-inflammatory, immunomodulatory and antiproliferative agent. Inhibits p56^{lck} and syk protein tyrosine kinases and inhibits TNF-induced NF-κB activation and gene expression. Synthesis results from conversion of resveratrol (Cat. No. 1418) by cytochrome P450 1B1.

Physical and Chemical Properties:

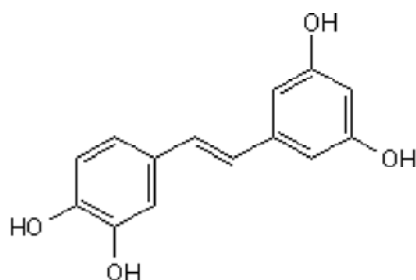
Batch Molecular Formula: C₁₄H₁₂O₄

Batch Molecular Weight: 244.25

Physical Appearance: Beige solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Ashikawa et al (2002) Piceatannol inhibits TNF-induced NF-κB activation and NF-κB-mediated gene expression through suppression of IκBα kinase and p65 phosphorylation. *J.Immunol.* **169** 6490. PMID: 12444159.

Potter et al (2002) The cancer preventative agent resveratrol is converted to the anticancer agent piceatannol by the cytochrome P450 enzyme CYP1B1. *Br.J.Cancer* **86** 774. PMID: 11875742.

Oliver et al (1994) Inhibition of mast cell FcεR1-mediated signalling and effector function by the syk-selective inhibitor, piceatannol. *J.Biol.Chem.* **269** 29697. PMID: 7961959.

Geahlen and McLaughlin (1989) Piceatannol (3,4,3',5'-tetrahydroxy-trans-stilbene) is a naturally occurring protein-tyrosine kinase inhibitor. *Biochem.Biophys.Res.Commun.* **165** 241. PMID: 2590224.

Storage: Store at +4°C

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 100 mM

DMSO to 100 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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