Product Name: Resveratrol  
Catalog No.: 1418  
Batch No.: 4

CAS Number: 501-36-0  
IUPAC Name: 5-[(1E)-2-(4-Hydroxyphenylethenyl)-1,3-benzenediol

1. PHYSICAL AND CHEMICAL PROPERTIES

   Batch Molecular Formula: C_{14}H_{12}O_3\cdot0.1H_2O
   Batch Molecular Weight: 230.05
   Physical Appearance: Off-white solid
   Solubility: ethanol to 100 mM, DMSO to 100 mM
   Storage: Desiccate at +4°C

2. ANALYTICAL DATA

   HPLC: Shows 99.7% purity
   \textsuperscript{1}H NMR: Consistent with structure
   Mass Spectrum: Consistent with structure
   Microanalysis:
   
   \begin{align*}
   \text{Theoretical} & \quad \text{Found} \\
   \text{Carbon} & \quad 73.1 \quad 72.96 \\
   \text{Hydrogen} & \quad 5.35 \quad 5.35 \\
   \text{Nitrogen} & \quad & \\
   \end{align*}
**Product Name:** Resveratrol  
**CAS Number:** 501-36-0  
**IUPAC Name:** 5-[(1E)-2-(4-Hydroxyphenyl)ethenyl]-1,3-benzenediol

**Description:**
A phytoestrogen with antitumor, antioxidant, antiplatelet, anti-inflammatory and antifungal effects. Inhibits cytochrome P450 1A1 (IC<br>values = 23 μM) and displays mixed agonist/antagonist actions at ERα and ERβ estrogen receptors. Converted into the anticancer agent piceatannol (Cat. No. 1554) by cytochrome P450 1B1.

**Physical and Chemical Properties:**
- **Batch Molecular Formula:** C_{14}H_{12}O_{2}.0.1H_{2}O
- **Batch Molecular Weight:** 230.05
- **Physical Appearance:** Off-white solid
- **Minimum Purity:** >98%
- **Batch Molecular Structure:**

![Molecular Structure of Resveratrol](image)

**References:**

**Storage:** Desiccate at +4°C

**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.