

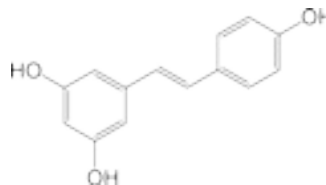
# Resveratrol

Catalog Number P002-100MG

Catalog Number P002-500MG

## FEATURES

- SIRT1 activator
- Potent phenolic antioxidant
- Selective inhibitor of cyclooxygenase-1



ARBOR  
ASSAYS

## INTRODUCTION

A potent SIRT1 activator and a phytoestrogen with antitumor, antioxidant, antiplatelet, anti-inflammatory and antifungal effects. Inhibits cytochrome P450 1A1 ( $IC_{50} = 23 \mu\text{M}$ ) and displays mixed agonist/antagonist actions at  $ER\alpha$  and  $ER\beta$  estrogen receptors. Trans-Resveratrol is a potent phenolic antioxidant found in grapes and red wine that also has antiproliferative and anti-inflammatory activity. trans-Resveratrol is also a selective inhibitor of cyclooxygenase-1 (COX-1). It inhibits COX and peroxidase activities of COX-1 with  $ED_{50}$  values of 15 and 3.7  $\mu\text{M}$ , respectively. There is essentially no inhibition of the COX-2 activity. Resveratrol also activates sirtuins and, extends lifespan in *C. elegans*. Converted into the anticancer agent piceatannol by cytochrome P450 1B1.

<b>FORM:</b>	Off white Powder
<b>MOLECULAR WEIGHT:</b>	228.25
<b>STORAGE:</b>	4°C, desiccated
<b>FORMULA:</b>	$C_{14}H_{12}O_3$
<b>CAS NUMBER:</b>	501-36-0
<b>OTHER NAMES:</b>	5-[(1E)-2-(4-hydroxyphenyl)ethenyl]-1,3-benzenediol
<b>USES:</b>	Soluble to 20 mg/mL in ethanol or 25 mg/mL in DMSO

## REFERENCES:

- Howitz KT, et al. Small molecule activators of sirtuins extend *Saccharomyces cerevisiae* lifespan. *Nature*. 425(6954):191-6. (2003)
- Jang, M., Cai, L., Udeani, G.O., et al. Cancer chemopreventive activity of resveratrol, a natural product derived from grapes. *Science* 275 218-220 (1997)
- Chun, et al. Resveratrol is a selective human cytochrome P450 1A1 inhibitor. *Biochem. Biophys. Res. Commun.* 262:20. (1999)

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