

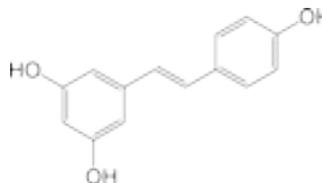
Resveratrol

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 ($IC_{50} = 23 \mu M$) 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 μM , 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.

FORM: Off white Powder

MOLECULAR WEIGHT: 228.25

STORAGE: 4°C, desiccated

FORMULA: $C_{14}H_{12}O_3$

CAS NUMBER: 501-36-0

OTHER NAMES: 5-[(1E)-2-(4-hydroxyphenyl)ethenyl]-1,3-benzenediol

USES: 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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