



<b>Catalog Number:</b>	MC11020	<b>Product Type:</b>	Small Molecule
<b>Bio-Activity:</b>	Antioxidant; SIRT1 activator	<b>CAS #:</b>	501-36-0
<b>Research Categories:</b>	Neuroscience, epigenetics, cell death, stem cells, immunology	<b>Chemical Name:</b>	3,4',5-Trihydroxy-trans-stilbene
<b>Solubility:</b>	Soluble in DMSO (up to 25 mg/ml) or in Ethanol (up to 20 mg/ml).	<b>Molecular Formula:</b>	C14H12O3
<b>Purity:</b>	> 98%	<b>Molecular Weight:</b>	228.25
<b>Format:</b>	Powder	<b>Ship Temp:</b>	Ambient
<b>Storage:</b>	-20°C		

### Application Notes

#### Description/Data:

Resveratrol is a naturally occurring phenolic antioxidant that has antitumor and antiplatelet effects (1). It stimulates SIRT1 and increases longevity in yeast (2). Resveratrol ameliorates ageing-related phenotypes by inhibition of cAMP phosphodiesterases (3).

#### References:

- 1) Fremont (2000), Biological effects of resveratrol; *Life Sci.*, 66 663
- 2) Howitz et al. (2003), Small molecule activators of sirtuins extend *Saccharomyces cerevisiae* lifespan; *Nature*, 425 191
- 3) Park et al. (2012), Resveratrol ameliorates aging-related metabolic phenotypes by inhibiting cAMP phosphodiesterases; *Cell*, 148 421

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