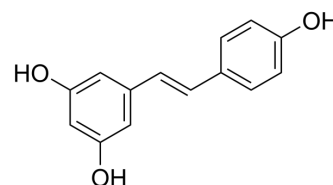


Resveratrol (Standard)

Cat. No.:	HY-16561R
CAS No.:	501-36-0
Molecular Formula:	C ₁₄ H ₁₂ O ₃
Molecular Weight:	228.24
Target:	IKK; Autophagy; Mitophagy; Sirtuin; Apoptosis; Bacterial; Fungal; Antibiotic; Keap1-Nrf2
Pathway:	NF-κB; Autophagy; Cell Cycle/DNA Damage; Epigenetics; Apoptosis; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (438.14 mM; Need ultrasonic)
 Ethanol : 50 mg/mL (219.07 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1 mg	5 mg	10 mg
	1 mM		4.3814 mL	21.9068 mL	43.8135 mL
	5 mM		0.8763 mL	4.3814 mL	8.7627 mL
	10 mM		0.4381 mL	2.1907 mL	4.3814 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Resveratrol (Standard) is the analytical standard of Resveratrol. This product is intended for research and analytical applications. Resveratrol (trans-Resveratrol; SRT501), a natural polyphenolic phytoalexin that possesses anti-oxidant, anti-inflammatory, cardioprotective, and anti-cancer properties. Resveratrol (SRT 501) has a wide spectrum of targets including mTOR, JAK, β-amyloid, Adenylyl cyclase, IKKβ, DNA polymerase. Resveratrol also is a specific SIRT1 activator^{[1][2][3][4]}. Resveratrol is a potent pregnane X receptor (PXR) inhibitor^[5]. Resveratrol is an Nrf2 activator, ameliorates aging-related progressive renal injury in mice model^[6]. Resveratrol increases production of NO in endothelial cells^[7].

IC₅₀ & Target

IKKβ	Sirtuin
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CUSTOMER VALIDATION

- ACS Nano. 2023 Oct 2.

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- Environ Int. 2023 Nov 25, 108354.
 - Redox Biol. 2022 Jun;52:102310.
 - Sci Total Environ. 2023 Sep 16;166954.
 - PLoS Biol. 2022 Jun 30;20(6):e3001682.

See more customer validations on www.MedChemExpress.com

Caution: Product has not been fully validated for medical applications. For research use only.

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