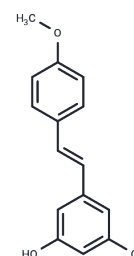


4'-Methoxyresveratrol

Chemical Properties

CAS No. :	33626-08-3
Formula:	C ₁₅ H ₁₄ O ₃
Molecular Weight:	242.27
Storage:	Keep away from direct sunlight, Store under nitrogen Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	4'-Methoxyresveratrol (4'-O-Methylresveratrol) is a natural product from the roots of *Rheum palmatum* L., with significant hypoglycemic, anti-inflammatory, and antioxidant effects. 4'-Methoxyresveratrol alleviates AGE-induced inflammation by suppressing RAGE-mediated MAPK/NF-κB signaling pathway and NLRP3 inflammasome activation.
Targets(IC50)	NF-κB, NOD-like Receptor (NLR), Advanced Glycation End Products
In vitro	4'-Methoxyresveratrol significantly abated the activation of NOD-like receptor pyrin domain containing 3 (NLRP3) inflammasome including NLRP3 and cleaved caspase-1 and reduced the secretion of mature IL-1β. The anti-inflammatory effect of 4'-Methoxyresveratrol is mainly through suppressing RAGE-mediated MAPK/NF-κB signaling pathway and NLRP3 inflammasome activation. 4'-Methoxyresveratrol could be a novel therapeutic agent for inflammation-related diseases.

Solubility Information

Solubility	DMSO: 60 mg/mL (247.66 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.1276 mL	20.6381 mL	41.2763 mL
5 mM	0.8255 mL	4.1276 mL	8.2553 mL
10 mM	0.4128 mL	2.0638 mL	4.1276 mL
50 mM	0.0826 mL	0.4128 mL	0.8255 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Wenzhe Y , Mengru T , Yueliang Z , et al. 4'-Methoxyresveratrol Alleviated AGE-Induced Inflammation via RAGE-Mediated NF- κ B and NLRP3 Inflammasome Pathway[J]. Molecules, 2018, 23(6):1447-.

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