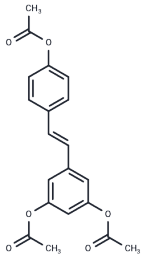
Data Sheet (Cat.No.T5668)

TargetMol

Triacetylresveratrol

Chemical Properties



CAS No. : 42206-94-0

Formula: C20H18O6

Molecular Weight: 354.35

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Triacetylresveratrol (Acetyl-trans-resveratrol) has anti-cancer activity,it inhibits the phosphorylation of STAT3 and NFκB, down-regulates Mcl-1, and up-regulates Bim and Puma in pancreatic cancer cells.
Targets(IC50)	Bcl-2 Family,NF-κB,STAT
In vitro	Acetyl-trans-resveratrol inhibited cell viability, and induced apoptosis of pancreatic cancer cells in a concentration and incubation time-dependent manner[1].
In vivo	Acetyl-trans-resveratrol significantly inhibited intracranial tumor growth and prolonged survival in these mouse models[2].
Cell Research	Apoptosis was determined by using apoptosis detection kit according to the manufacturers instructions.?Briefly, cells were treated with the indicated dosage of Acetyl-trans-resveratrol?for 48 h. The untreated and?treated cells were washed with PBS buffer and gently suspended in Annexin V binding buffer and incubated with Annexin V-FITC (20 μg/mL) and PI (20 μg/mL) for 15 minutes in the dark.?Flow cytometry analysis was performed using Cellquest software.

Solubility Information

Solubility	DMSO: 247.5 mg/mL (698.46 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8221 mL	14.1103 mL	28.2207 mL
5 mM	0.5644 mL	2.8221 mL	5.6441 mL
10 mM	0.2822 mL	1.411 mL	2.8221 mL
50 mM	0.0564 mL	0.2822 mL	0.5644 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

Duan J J , Yue W , Jianyu E , , et al. In vitro comparative studies of resveratrol and triacetylresveratrol on cell proliferation, apoptosis, and STAT3 and NFκB signaling in pancreatic cancer cells[J]. Scientific Reports, 2016, 6: 31672.

Sengupta R , Barone A , Marasa J , et al. Novel chemical library screen identifies naturally occurring plant products that specifically disrupt glioblastoma-endothelial cell interactions.[J]. Oncotarget, 2015, 6(21):18282-18292.