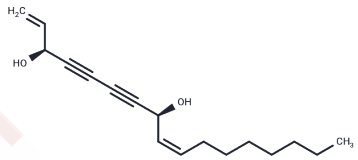
Data Sheet (Cat.No.T72961)

TargetMol

Falcarindiol

Chemical Properties



CAS No. : 55297-87-5

Formula: C17H24O2

Molecular Weight: 260.37

Storage: Keep away from moisture,Keep away from direct sunlight
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	Falcarindiol is an orally active natural polyacetylene compound exhibiting anti-inflammatory and antiproliferative properties. It inhibits NO production in LPS-induced mouse macrophages, reduces tyrosine phosphorylation of JAK1 and JAK2, and modulates STAT1 nuclear translocation, thereby suppressing iNOS expression.
Targets(IC50)	NOS,STAT,NOD,JAK
In vitro	Falcarindiol (1-20 μM) exhibited low toxicity towards hMSCs and HT-29 cells, while demonstrating cytotoxicity at concentrations above 50 μM [2]. After 24 hours of treatment with Falcarindiol (5 μM), the expression of the PPARγ2 gene in HT-29 cells was significantly upregulated [2].
In vivo	Falcarindiol (7 μg/g, diet) significantly upregulates the gene expression of cholesterol transporter (ABCA1) in colorectal tumor tissues of 5-week-old male F344 strain rats [2].

Solubility Information

Solubility	DMSO: ≥ 25 mg/mL,Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.8407 mL	19.2034 mL	38.4069 mL
5 mM	0.7681 mL	3.8407 mL	7.6814 mL
10 mM	0.3841 mL	1.9203 mL	3.8407 mL
50 mM	0.0768 mL	0.3841 mL	0.7681 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

Tingting Lu, et al. Autophagy contributes to falcarindiol-induced cell death in breast cancer cells with enhanced endoplasmic reticulum stress. PLoS One. 2017 Apr 25;12(4):e0176348.
Camilla Bertel Andersen, et al. Falcarindiol Purified From Carrots Leads to Elevated Levels of Lipid Droplets and Upregulation of Peroxisome Proliferator-Activated Receptor-γ Gene Expression in Cellular Models. Front Pharmacol. 2020 Aug 28;11:565524.