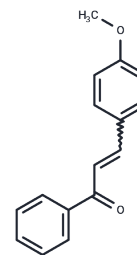


4-METHOXYCHALCONE

Chemical Properties

CAS No. :	959-33-1
Formula:	C ₁₆ H ₁₄ O ₂
Molecular Weight:	238.28
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	4-METHOXYCHALCONE (2-(4-Methoxybenzal)Acetophenone) is a natural compound that enhanced adipocyte differentiation,
Targets(IC50)	Others,Nrf2
In vivo	Treatment with 4-MC enhanced the lipid accumulation and strongly up-regulated the expression of adipogenic markers, including PPAR γ , aP2, FAS, and adiponectin during adipocyte differentiation[1].

Solubility Information

Solubility	DMSO: 22.5 mg/mL (94.43 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2 mg/mL (8.39 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.1967 mL	20.9837 mL	41.9674 mL
5 mM	0.8393 mL	4.1967 mL	8.3935 mL
10 mM	0.4197 mL	2.0984 mL	4.1967 mL
50 mM	0.0839 mL	0.4197 mL	0.8393 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

Younho, Han, Sung, et al. Regulatory effects of 4-methoxychalcone on adipocyte differentiation through PPAR γ activation and reverse effect on TNF- α in 3T3-L1 cells[J]. Food & Chemical Toxicology, 2017.

Lim J , Lee S H , Cho S , et al. 4-methoxychalcone enhances cisplatin-induced oxidative stress and cytotoxicity by inhibiting the Nrf2/ARE-mediated defense mechanism in A549 lung cancer cells[J]. Molecules and Cells, 2013, 36 (4):340-346.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481