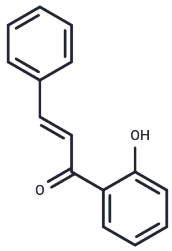
Data Sheet (Cat.No.TN1163)

TargetMol

2'-Hydroxychalcone

Chemical Properties



CAS No. : 1214-47-7

Formula: C15H12O2

Molecular Weight: 224.25

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	2'-Hydroxychalcone is a drug synthesis intermediate for the synthesis of flavonoids. 2'-Hydroxychalcone loaded in nanoemulsion showed fungicidal activity against Coccidioides parapsilosis in Danio rerio model.2'-Hydroxychalcone induced cytotoxicity through oxidative stress in lipid-loaded Hepg2 cells.2'-Hydroxychalcone inhibited the induction of ICAM-1, VCAM-α, tumor necrosis factor-α, and tumor necrosis factor-alpha as determined by reverse transcription-polymerase chain reaction determined by tumor necrosis factor-alpha induces steady-state transcript levels of ICAM-1, VCAM-1, and E-selectin, and therefore may interfere with the transcription of their genes.
Targets(IC50)	Apoptosis,Others,NF-κB,Autophagy,Antifungal

Solubility Information

Solubility	DMSO: 250 mg/mL (1114.83 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: < 10 mg/mL (44.59 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (44.59 mM),Solution. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.4593 mL	22.2965 mL	44.5931 mL
5 mM	0.8919 mL	4.4593 mL	8.9186 mL
10 mM	0.4459 mL	2.2297 mL	4.4593 mL
50 mM	0.0892 mL	0.4459 mL	0.8919 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

Roy T, et al. Synthesis, inverse docking-assisted identification and in vitro biological characterization of Flavonol-based analogs of fisetin as c-Kit, CDK2 and mTOR inhibitors against melanoma and non-melanoma skin cancers. Bioorg Chem. 2021;107:104595.