Data Sheet (Cat.No.TN7226)

TargetMol

2-Hydroxy-3-methoxy chalcone

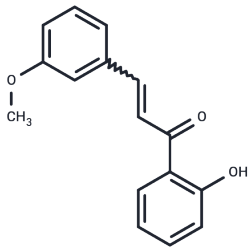
Chemical Properties

CAS No. : 7146-86-3

Formula: C16H14O3

Molecular Weight: 254.28

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	2-Hydroxy-3-methoxy chalcone has anticancer activity and inhibits colon cancer.
Targets(IC50)	Others
In vitro	2'-hydroxy-3'-methoxychalcone (TJ3) (10 μM and 25 μM) significantly reduced the release of ICAM-1 by SW480 cancer cells. It did not have a significant effect on VCAM-1 released by SW480 and SW620 cancer cell lines. However, it demonstrated a significant dose-dependent reduction in the concentration of MIF on SW480 cells. Additionally, TJ3 at a concentration of 25 μM significantly decreased IL-8 secretion by both SW480 and SW620 cancer cells. These results indicate that the tested TJ3 exhibits a modulating effect on colon cancer cells.[1]

Solubility Information

Solubility	DMSO: 45 mg/mL (176.97 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.9327 mL	19.6634 mL	39.3267 mL
5 mM	0.7865 mL	3.9327 mL	7.8653 mL
10 mM	0.3933 mL	1.9663 mL	3.9327 mL
50 mM	0.0787 mL	0.3933 mL	0.7865 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

Bronikowska J, et al. The modulating effect of methoxy-derivatives of 2'-hydroxychalcones on the release of IL-8, MIF, VCAM-1 and ICAM-1 by colon cancer cells. Biomed Pharmacother. 2022;145:112428.

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.

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