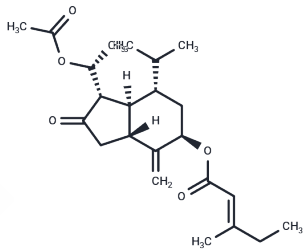
Data Sheet (Cat.No.T6S1027)

TargetMol

Tussilagone

Chemical Properties



CAS No. :	104012-37-5
Formula:	C23H34O5
Molecular Weight:	390.51
Storage:	Keep away from direct sunlight,Keep away from moisture 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	1. Tussilagone inhibits dendritic cell function through the induction of heme oxygenase-1. 2. Tussilagone has anti-cancer activity, might be a potential chemotherapeutic agent for the prevention and treatment of human colon cancer. 3. Tussilagone has anti-oxidant and anti-inflammatory activities, may be an effective oxygenase-1 inducer and a valuable compound for modulating inflammatory conditions. 4. Tussilagone has potential treatment of neuro-inflammatory diseases through the inhibition of overproduction of nitric oxide and prostaglandin E(2) .
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 71 mg/mL (181.81 mM),Sonication is recommended. Chloroform, Dichloromethane, Ethyl Acetate, Acetone, etc.: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 5 mg/mL (12.8 mM),Sonication is recommended. *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	2.5608 mL	12.8038 mL	25.6075 mL
5 mM	0.5122 mL	2.5608 mL	5.1215 mL
10 mM	0.2561 mL	1.2804 mL	2.5608 mL
50 mM	0.0512 mL	0.2561 mL	0.5122 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

Li H , Lee H J , Ahn Y H , et al. Tussilagone suppresses colon cancer cell proliferation by promoting the degradation of β-catenin[J]. Biochemical and Biophysical Research Communications, 2014, 443(1):132-137.