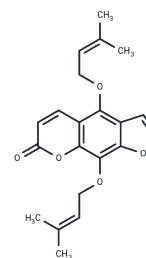


Cnidicin

Chemical Properties

CAS No. :	14348-21-1
Formula:	C ₂₁ H ₂₂ O ₅
Molecular Weight:	354.4
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	Cnidicin has anti-allergic and anti-inflammatory activity, it inhibits the degranulation of mast cell and the NO generation in RAW 264.7 cells (IC ₅₀ value, 7.5 microM). Cnidicin exhibits a significant inhibition on the proliferation of cultured human tumor cells such as A549 (non small cell lung), SK-OV-3 (ovary), SK-MEL-2 (melanoma), XF498 (central nervous system) and HCT-15 (colon) in vitro .
Targets(IC ₅₀)	NOS,NO Synthase
In vitro	The hexane soluble part of the extract demonstrated a significant inhibition on the proliferation of cultured human tumor cells such as A549 (non small cell lung), SK-OV-3 (ovary), SK-MEL-2 (melanoma), XF498 (central nervous system) and HCT-15 (colon) in vitro, whereas the remaining water soluble part exhibited poor inhibition. Intensive investigation of the hexane soluble part of the extract yielded six furanocoumarins, i.e. isoimperatorin, Cnidicin, imperatorin, oxypeucedanin, byakangelicol, oxypeucedanin hydrate, all of which exhibited a significant inhibition on cell proliferation in a dose-dependent manner[1]

Solubility Information

Solubility	DMSO: 25 mg/mL (70.54 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8217 mL	14.1084 mL	28.2167 mL
5 mM	0.5643 mL	2.8217 mL	5.6433 mL
10 mM	0.2822 mL	1.4108 mL	2.8217 mL
50 mM	0.0564 mL	0.2822 mL	0.5643 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

Antiproliferative effect of furanocoumarins from the root of *Angelica dahurica* on cultured human tumor cell lines. *Phytother Res.* 2007 Mar;21(3):288-90.

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