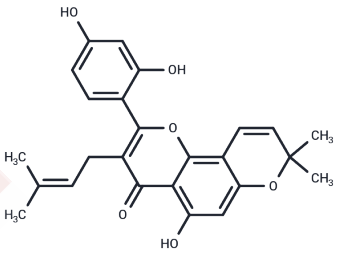
Data Sheet (Cat.No.T5S1607)

TargetMol

Morusin

Chemical Properties



CAS No. : 62596-29-6

Formula: C25H24O6

Molecular Weight: 420.45

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. Morusin (Mulberrochromene) possesses antitumor effects of cell lines including HT-29, A549, MCF-7, and MDA-MB-231, through suppressing STAT3 and NFκB attenuation mediated apoptosis induction. 2. Morusin possesses anti-oxidant and anti-inflammatory effects.
Targets(IC50)	NF-κB,Antibacterial,STAT

Solubility Information

Solubility	DMSO: 55 mg/mL (130.81 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (4.76 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	2.3784 mL	11.892 mL	23.784 mL
5 mM	0.4757 mL	2.3784 mL	4.7568 mL
10 mM	0.2378 mL	1.1892 mL	2.3784 mL
50 mM	0.0476 mL	0.2378 mL	0.4757 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

Lin W L , Lai D Y , Lee Y J , et al. Antitumor progression potential of morusin suppressing STAT3 and NFκB in human hepatoma SK-Hep1 cells[J]. Toxicology Letters, 2015, 232(2):490-498.
Chen M, Xiao S, Sun P, et al.Morusin suppresses the stemness characteristics of gastric cancer cells induced by hypoxic microenvironment through inhibition of HIF-1α accumulation.Toxicon.2024: 107675.